

U.S. Department of Transportation

ISSUE: 97-50

Federal Aviation
Administration





December 7, 1997 - December 13, 1997

Summary

GENERAL AVIATION, ZAC-327

You can improve Air Safety by reporting the problem when you see it!

SECTION

- I Significant Occurence Report
- **II Domestic Service Difficulty Report**
- **III** International Service Difficulty Report
- IV SDR Totals by District Office
- V Index By Aircraft Make and Model
- VI Joint Aircraft System/Component Code Table



SDR SUMMARY

General Aviation, ZAC-327



This summary includes domestic (United States) Service Difficulty Reports (SDRs) entered into the data base for aircraft weighing 12,500 lbs. and below. It also includes reports on aeronautical products (engines, propellers, and components), and all helicopters. A separate section for International SDRs for aircraft weighing 12,500 lbs. and under has also been included. Under a data exchange agreement, International SDRs are submitted to the FAA by the Civil Aviation Authority of other countries (currently, Canada - CAN, and Australia - AUS). All reports are sorted by aircraft make, model group (basic model), and Joint Aircraft System/Component (JASC) code. Within each aircraft model group, the specific model shown may vary, but similar types of reports will be grouped together and listed in ascending order by their JASC code. Each field contains all information submitted to the FAA. Some fields are not included in order to make the summary easier to read. Additional information may be obtained by referring to the "operator control number." Send your request to the Aviation Data Systems Branch, AFS-620 at the address or phone below.

The Regulatory Support Division (AFS-600) has established a "HomePage" on the Internet through which the same information is available. There is a large quantity of other information available through the AFS-600 HomePage such as the most current SDR system codes (i.e., Joint Aircraft System\Component Codes). The SDR Question and Answer Section of the Summary will also be transferred to the AFS-600 HomePage to simplify the process of preparing the SDR Summaries in the PDF format each week. There are "hot buttons" to take you to other locations and sites where FAA Flight Standards Service Information is available. The AFS-600 "HomePage" address is:

http://www.mmac.jccbi.gov/afs/afs600

"The Service Difficulty Reports in this publication are derived from unverified information submitted by the aviation community without FAA verification for accuracy. The number of SDRs submitted is not an indication of the mechanical reliability or fitness of an airline or individual operator, and the information should not be used as such."

Comments are welcomed and may be directed to:

Federal Aviation Administration Aviation Data Systems Branch, AFS-620 P.O. Box 25082 Oklahoma City, OK 73125-5029

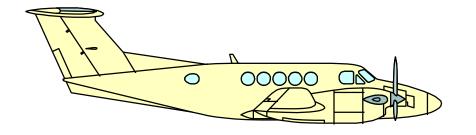
Phone: (405) 954-4171, Fax: (405) 954-4748

Your continued participation is essential and is an integral part of ensuring aviation safety. Thank you for supporting the Service Difficulty Program! If you have any questions regarding this special notice you can contact John Jackson at (405) 954-6486, or Jim Gillespie at (405) 954-1141, or Blake McDonald at (405) 954-0307 in the Aviation Systems Branch (AFS-620). Their E-mail addresses are:

john_e_jackson@mmacmail.jccbi.gov

james_gillespie@mmacmail.jccbi.gov

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SIGNIFICANT OCCURRENCE REPORT





THE SIGNIFICANT OCCURRENCE REPORT



The Significant Occurrence Report is a compilation all of the star bordered reports that appear in the General Aviation Service Difficulty Report (SDR) Summary, ZAC-327. The Significant Occurrence Report is used to highlight industry problem areas to field inspectors and the aviation public.

Limited analysis is performed by the Aviation Data Systems Branch, AFS-620 during the preparation of the "Significant Occurrence Report", which is generated each week and is included in the front of the Air Carrier SDR Summary. Significant Reports are hand selected by AFS-620's inspectors based on the individual merit of each report. The criteria for selection includes, but is not limited to, items that indicate high failure rates; items related to accidents or incidents; or design or maintenance failures which may affect the safe operation of the aircraft.

In some cases, this limited analysis of SDR data leads to the preparation of information bulletins which are routed to the appropriate product certification office for further investigation of the problem. The end result may be the issuance of an airworthiness directive (AD) by the Aircraft Certification Service (AIR) if warranted.

The Significant Occurrence Report (section I) of the weekly SDR Summary is not intended to be a summary of all significant events and should not be used as such. We recommend that you review further the applicable sections of the SDR summary that may be of interest.

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
3020	564CA	ВЕЕСН				ANTI ICE TUBE	BROKEN	5496	11/14/97
	BE58	B100					LT ENG INTAKE	233	97ZZZX5044
****	BROKEN OFF. SU		BLEED AIR IN THIS A			E ANTI-ICE HAD BEEN ON F E FORMING ON INTAKE LIF			
7210		BEECH	PWA			PLANETARY GEAR	SEPARATED		6/29/97
		200BEECH	PT6A41			310152501	REDUCTION GEAR	RBX2370	CA970916003
****	FOUND METAL IN SOURCE OF THE M DISCOLORATION	N THE OIL FILTER. THE METAL PARTICLES ON	ENGINE WAS SENT I THE CHIP DETECTO OTHER COMPONEN	FOR INVESTIGATION R WAS A PIECE OF M IS INDICATING LACI	I AND DISASSEMBL IETAL MISSING FRO K OF LUBRICATION	OWN AND THE FLIGHT COI Y OF THE REDUCTION GEA OM THE END OF ONE TOOT I. CLOSER INSPECTION OF IINATION.	ARBOX ASCERTAINED TH ON ONE OF THE 1ST	THE MAIN I	DAMAGE AND PROBABLE NET GEARS. THIS WAS NO
7250		BEECH	PWA		PWA	BOLT	WRONG PART	566	9/18/97
		65A90	PT6A20		3020259	MS956508	CT SHROUD ASSY	-	CA970922020
****		SPECTION BOLTS ON T TALLATION WERE THI		URBINE SHROUD ASS	SEMBLY HOUSING	WERE FOUND DEFORMED	WITH MATERIAL LOS	S. INVESTIGA	ATION FOUND THE BOLTS
7250	2138Y	BELL	ALLSN			TURBINE	COKED	13208	10/21/97
	45639	206L1	250C28B			23033185	SCAV OIL PORT	785	97ZZZX4973
****	FLUCTUATED AB	OUT 10 PERCENT. UPO	N INITIAL INVESTIC	SATION, THE OIL RES	SERVOIR WAS WAY	- 130 PSI AT A STEADY RAT DOWN AND THE EXHAUS' INTO THE TURBINE AND F	T COLLECTOR WAS VI	ERY WET WI	ΓΗ OIL. SPECULATION -
5531	691DB	CESSNA				SPAR	CRACKED		11/17/97
	177RG1314	177RG				17330021	VERTICAL FIN		97ZZZX5104
****		AR CRACKED ON BOTI SHOWS NO DAMAGE. C			NGE. CRACKS MEA	SURE CLOSE TO .75 INCH C	ON BOTH SIDES. VERT	ICAL FIN NO	Γ DISTORTED AND
2720	995RA	CESSNA				ROD END	FAILED	3084	11/11/97
	U20604252	U206G				12606311	RUDDER BAR		97ZZZX5111
****	BUNGEE HAD CRA	ACKED OFF. THE PART	SHOWED EVIDENC	E OF HAVING BEEN (CRACKED FOR A W	ER INVESTIGATION REVEA HILE. THIS PART SEEMS TO EN ROD END SUBMITTER I	O BE VERY SMALL FO	R THE STRES	S IT COMES UNDER.
5751	738FX	CESSNA				BEARING	FROZEN	996	10/31/97
	208B0482	208B				MS244624	LT AIL OB HINGE		97ZZZX5039
****	BEARINGS WERE		OUTBOARD BEARING	G WAS FOUND ALMO		NCE. RESISTANCE WAS EV CORROSION. THESE ARE SI			
7160	29076	CHRIS				AIR BOX	WORN	490	11/12/97
	1022	A1				35453	VALVE SHAFT		97ZZZX5038
****	TO .013 IPS. BOX	BY DESIGN IS NOT REP	AIRABLE DUE TO SI	HAFT WELDED TO PL	LATE. SUBMITTER	JSED BY ENGINE VIBRATIC RECOMMENDED BOX BE R OWING FOR FIELD REPAIR	E-DESIGNED BY MFG		

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
5540	272НЈ	PIPER				HINGE	SEIZED	3572	11/25/97
	317712055	PA31310				51108004	RUDDER		97ZZZX5099
****		DER TOP HINGE BOLT S CORROSION WAS SEVE				. BOTH HINGE ASSEMBLIE	S (THE RUDDER AND	VERTICAL ST	ABILIZER) HAD TO BE
3230	311AC	PIPER				BRACKET	CRACKED	3700	11/26/97
	31T8120016	PA31T					MLG UPLOCK		97ZZZX5041
****						SIDEWAYS LODGING BETW ND WITH THIS PROBLEM.	EEN ROLLER AND G	EAR LEG. LEF	T MAIN GEAR WOULD
5743	19SW	PIPER				TRUNNION BRACKET	LOOSENED	7650	11/13/97
	347250119	PA34200				67041	MLG MOUNT		97ZZZX5042
****		ND THE MLG TRUNNIO VE FOUND THE BOLTS				OOSENING CAUSES THE HO RCRAFT.	LES IN THE WING SP	AR TO ELONG	ATE. SUBMITTER
7603	9091J	PIPER				CABLE ASSY	PARTED	3446	9/11/97
S88R	425501035	PA42720				5697905	NR 1 THROTTLE		97ZZZX5112
****	AILERON BELLCR INCH MINIMUM BI	ANK RT MOUNTING BI	RACKET. ENGINE CO OINT OF PARTING. T	ONTROL WAS LOST A THE CUT-OUT AREA	AND THE MISSION A	EL RIBBON CORE PARTED V ABORTED. INVESTIGATION /AS SUBSEQUENTLY ENLAI	REVEALED THE CAI	BLE INSTALLA	TION VIOLATED THE 7
2215	9284X	PIPER			KING	SCREWS	LOOSENED	235	11/7/97
	4636087	PA46350P			KS270A	089606705	PITCH SERVO		97ZZZX5040
****	SERVO NOT WORK	KING PROPERLY. REM	OVED FROM AIRCRA	AFT AND FOUND THE	REE SCREWS BACK	ED OUT UNTIL THEY HIT PI	ATE 073-0515-03. SC	REWS NEED LO	OCTITE.
(End of GEN	NERAL AVIATION	SIGNIFICANT OCCU	RRENCE REPORT)						

Run Date: 18-Dec-97

FEDERAL AVIATION ADMINISTRATION SIGNIFICANT OCCURRENCE REPORT INDEX

Showing Specific Part Numbers and Aircraft Model by Year

FOR THE PERIOD OF: 12/7/97 To 12/13/97

PART NUMBER		·=						YEAR					
PART NAME	ACFT MODEL	TOTAL	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
089606705	<u> </u>				·								
SCREWS	PA46350P	1	-	-	-	-	-	-	-	-	-	-	1
TOTAL of # 089606	6705	1			-						_	-	1
12606311													
ROD END	207	1	-	-	-	-	1	-	-	-	-	-	-
	U206G	3	-	-	-	-	1	-	-	-	-	1	1
TRIM ROD END	U206G	1	-	-	-	-	-	-	-	-	-	1	-
TOTAL of # 126063	311	5				-	2	-	-	_	_	2	1
162J													
CONNECTOR	FALCON900	1											1
TOTAL of # 162J -		1	-	-	-	-	-	-	-	-	-	-	1
17330021													
SPAR	177RG	1											1
TOTAL of # 173300)21	1	-	-	-	-	-	-	-	-	-	-	1
23033185													
TURBINE	206L1	1	-	-	-	-	-	-	-	-	-	-	1
TOTAL of # 230331	185	1	-	-	-	-	-	-	-	-	-	-	1
265201051													
INLET	35A	1	-	-	-	-	-	-	-	-	-	-	1
TOTAL of # 265201	051	1	-	-		_	-				_	-	1
3034038													
VALVE	unknown	1				_							1
TOTAL of # 303403	88	1	-	-	-	-	-	-	-	-	-	-	1
310152501													
PLANETARY GEAR	200BEECH	1											1
TOTAL of # 310152	2501	1	-	-		-	-		-		_	-	1

FAA SIGNIFICANT OCCURRENCE REPORT INDEX 12/7/97 To 12/13/97 (cont'd)

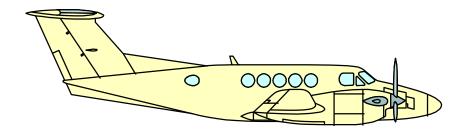
PART NUMBER		_						YEAR					
PART NAME	ACFT MODEL	TOTAL	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
35453													
AIR BOX	A1	1											1
TOTAL of # 35453 -		1	-	-	-	-	-	-	-	-	-	-	1
51108004													
HINGE	PA31310	1											1
TOTAL of # 5110800	4	1	-	-	-	-	-	-	-	-	-	-	1
5583112140													
DRAIN CABLE	FALCON900	1											1
TOTAL of # 5583112	140	1	-	-	-	-	-	-	-	-	-	-	1
5697905													
CABLE ASSY	PA42720	1											1
TOTAL of # 5697905		1	-	-	-	-	-	-	-	-	-	-	1
67041													
TRUNNION BRACKET	PA34200	1											1
TOTAL of # 67041 -		1	-	-	-	-	-	-	-	-	-	-	1
785265													
BLADE	340B	1											1
TOTAL of # 785265 -		1	-	-	-	-	-	-	-	-	-	-	1
7911004092													
EEC	unknown	1											1
TOTAL of # 7911004	092	1	-	-	-	-	-	-	-	-	-	_	1
80466801													
FUEL LINE	unknown	1											1
TOTAL of # 8046680	1	1	-	-	-	-	-	-	-	-	-	-	1
804710													
ALTIMETER	FALCON50MYST	1	-	-	-	-	-	-	-	-	-	-	1
TOTAL of # 804710 -		1	-	-	-	-	-	-	-	-	-	-	1
MS244624													
BEARING	180K	1	-	-	-	1	-	-	-	-	-	-	-
	208B	1											1
TOTAL of # MS2446	24	2	-	-	-	1	-	-	-	-	-	-	1

FAA SIGNIFICANT OCCURRENCE REPORT INDEX 12/7/97 To 12/13/97 (cont'd)

PART NUMBER		<u>.</u>						YEAR					
PART NAME	ACFT MODEL	TOTAL	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
MS956508													
BOLT	65A90	1	-	-	-	-	-	-	-	-	-	-	1
TOTAL of # MS9565	08	1		_	_	-						_	1
		===											
TOTAL for ALL (22) PAI	RT NUMBERS:	24	-	-	-	1	2	-	-	-	-	2	19
END OF SIGNIFICANT OCC	CURRENCE REPORT INDEX												



DOMESTIC SERVICE DIFFICULTY REPORT



ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
3020	564CA	BEECH				ANTI ICE TUBE	BROKEN	5496	11/14/97
	BE58	B100					LT ENG INTAKE	233	97ZZZX5044
*****	BROKEN OFF. SU	*	BLEED AIR IN THIS A			ANTI-ICE HAD BEEN ON E FORMING ON INTAKE LI			
3233	500PH	BEECH				ACTUATOR	WORN		11/28/97
HEEA	BL29	200CBEECH				508202085	NLG		HEEA0012152
	NLG ACTUATOR I	EXCESSIVE END PLAY.							
3213	6638B	BEECH				HOUSING	FAILED	5200	10/29/97
	M2217	C23				169810000663	NLG WHEEL		97ZZZX5109
	REVEALED STRES	SS CRACKS IN PISTON	SLEEVE AT ATTACH	POINTS; SUSPECT C	AUSED BY OVERST	G COMPLETED ON MAINS EERING DURING GROUNE E GEAR SHOULD BE DISA:	TO WING WITH POWE	ER TUG. SUB	
5531	691DB	CESSNA				SPAR	CRACKED		11/17/97
	177RG1314	177RG				17330021	VERTICAL FIN		97ZZZX5104
****		PAR CRACKED ON BOTH SHOWS NO DAMAGE. C			NGE. CRACKS MEAS	SURE CLOSE TO .75 INCH	ON BOTH SIDES. VERT	ICAL FIN NO	T DISTORTED AND
2720	995RA	CESSNA				ROD END	FAILED	3084	11/11/97
	U20604252	U206G				12606311	RUDDER BAR		97ZZZX5111
****	BUNGEE HAD CR	ACKED OFF. THE PART	SHOWED EVIDENC	E OF HAVING BEEN (CRACKED FOR A WI	R INVESTIGATION REVEA HILE. THIS PART SEEMS T EN ROD END SUBMITTER	O BE VERY SMALL FO	R THE STRES	SS IT COMES UNDER.
5751	738FX	CESSNA				BEARING	FROZEN	996	10/31/97
	208B0482	208B				MS244624	LT AIL OB HINGE		97ZZZX5039
****	BEARINGS WERE	,	OUTBOARD BEARING	G WAS FOUND ALMO		NCE. RESISTANCE WAS E CORROSION. THESE ARE S			
5520	2656B	CESSNA				FITTING	CRACKED	4500	11/20/97
WIWR	421C0711	421C				50350053	LT ELEVATOR		97ZZZX5106
						AT THE HOLE FOR THE T N INSTALLING THE TAPEI			FITTING HAD BEEN S AT THE PIN HOLE FROM
5210	2FOR	CESSNA				HINGE	CRACKED	4946	10/13/97
WTXR	4410067	441				511151515	CABIN DOOR		97ZZZX5045
	EDDY CURRENT I		THE HINGE WAS CRA			AFT LOWER CABIN DOOR IS. THE RIVETS HAD BEE			
2750	45NS	CESSNA				GEARBOX	SEIZED		11/12/97
MOGA	5500479	550				556517531	RT FLAP	2825	97ZZZX5035
	BREAKER TRIPPE	ED AGAIN. FLIGHT CON	NTINUED TO DESTIN	ATION AT REDUCED	SPEED AND MADE	T BREAKER TRIPPED. RES UNEVENTFUL LANDING. EREPLACED BY UPDATED	TROUBLESHOOTING	REVEALED F	

DOMEST	IC SERVICE DIFF	FICULTY REPORT	<u>SUMMARY - AIR</u>	CRAFT (cont'd)			<u>12/7/97 To</u>	12/13/97	ISSUE: 97-50 ZAC-327
ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
2750	45NS	CESSNA				GEARBOX	SHEARED		11/12/97
	5500479	550				556517531	LT FLAP	975	97ZZZX5032
		HSHOOTING FLAP DRIV DASH 38 UNIT iAW CE			X DRIVESHAFT SHE	EARED. THIS WAS CAUSED	BY RIGHT FLAP GEAF	RBOX SEIZIN	G. REPLACED GEARBOX
7160	29076	CHRIS				AIR BOX	WORN	490	11/12/97
	1022	A1				35453	VALVE SHAFT		97ZZZX5038
****	TO .013 IPS. BOX I	BY DESIGN IS NOT REP	AIRABLE DUE TO SE	HAFT WELDED TO PL	ATE. SUBMITTER R	SED BY ENGINE VIBRATIO RECOMMENDED BOX BE RI OWING FOR FIELD REPAIR:	E-DESIGNED BY MFG		
7922	454MA	MTSBSI				BYPASS VALVE	FAILED	335	9/22/97
R7MA	1535SA	MU2B60				016A4702221	TEMP REGULATOR	1	97ZZZX5067
	BYPASS VALVE U	NIT INOPERATIVE. OI	L TEMPERATURE RE	DLINES ON GROUND	O. REPLACED WITH	NEW UNIT, CORRECTED PR	ROBLEM.		
7714	737	PARTEN				TACH GENERATOR	FAILED		11/19/97
RF1R	40004OTC	P68TCOBS				TG010005006	ENGINE		97ZZZX5108
	TACHOMETER GE	NERATOR FAILED. HI	GH TIME ON PART.	SUSPECT NOT ENOU	GH LUBRICATION F	OR TIME ON PART. SUBMI	TTER STATED CHANG	E AT PROPE	R LIFE LIMIT.
3710	4240T	PIPER				PUMP	FAILED		11/24/97
	287205112	PA28180				211CC	VACUUM SYSTEM	1	97ZZZX5103
	PUMP FAILED ON	FIRST TAKEOFF. VAC	JUM PUMP NEWLY (OVERHAULED.					
5530	272НЈ	PIPER				HINGE	SEIZED	3572	11/25/97
	317712055	PA31310				4805500	VERT STABILIZER		97ZZZX5100
		DER TOP HINGE BOLT S CORROSION WAS SEVE				. BOTH HINGE ASSEMBLIE	ES (THE RUDDER AND	VERTICAL S	TABILIZER) HAD TO BE
5540	272НЈ	PIPER				HINGE	SEIZED	3572	11/25/97
	317712055	PA31310				51108004	RUDDER		97ZZZX5099
****		DER TOP HINGE BOLT S CORROSION WAS SEVE				. BOTH HINGE ASSEMBLIE	ES (THE RUDDER AND	VERTICAL S	TABILIZER) HAD TO BE
3230	311AC	PIPER				BRACKET	CRACKED	3700	11/26/97
	31T8120016	PA31T					MLG UPLOCK		97ZZZX5041
****						SIDEWAYS LODGING BETV ND WITH THIS PROBLEM.	VEEN ROLLER AND GE	AR LEG. LE	FT MAIN GEAR WOULD
2913	84KA	PIPER				PUMP	FAILED	3488	8/1/97
	32R8129052	PA32R301T				38998005	HYDRAULICS		97ZZZX5110
						E GEAR PAST HALF RETRA FIND OUT WHAT WAS WR			
5743	19SW	PIPER				TRUNNION BRACKET	LOOSENED	7650	11/13/97
	347250119	PA34200				67041	MLG MOUNT		97ZZZX5042
****		ND THE MLG TRUNNIO VE FOUND THE BOLTS				OOSENING CAUSES THE HO RCRAFT.	LES IN THE WING SPA	R TO ELONO	GATE. SUBMITTER

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
7603	9091J	PIPER				CABLE ASSY	PARTED	3446	9/11/97
S88R	425501035	PA42720				5697905	NR 1 THROTTLE		97ZZZX5112
****	DUDING DDE ELIG	NIT OPED ATION AT CITI	COMO TELE LECTRON	CINIC THEOTER E CAR	I E CEADU ECC CEE	TI DIDDON CODE DADEE	WHIEDE THE CADLE	A GOEG TIDO	LICITA CUE OUE INTELLE

DURING PRE-FLIGHT OPERATIONAL CHECKS, THE LEFT ENGINE THROTTLE CABLE STAINLESS STEEL RIBBON CORE PARTED WHERE THE CABLE PASSES THROUGH A CUT-OUT IN THE AILERON BELLCRANK RT MOUNTING BRACKET. ENGINE CONTROL WAS LOST AND THE MISSION ABORTED. INVESTIGATION REVEALED THE CABLE INSTALLATION VIOLATED THE 7 INCH MINIMUM BEND RADIUS AT THE POINT OF PARTING. THE CUT-OUT AREA IN THE BRACKET WAS SUBSEQUENTLY ENLARGED TO RELIEVE THE CABLE BEND. THE CABLE ASSEMBLY WAS REPLACED AND THE AIRCRAFT RETURNED TO SERVICE.

(End of DOMESTIC SERVICE DIFFICULTY REPORT SUMMARY - AIRCRAFT)

12/7/97 To 12/13/97 ISSUE: 97-50 ZAC-327

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
8500	7234Y	AMTR	ROTAX			ENGINE	FAILED		10/26/97
	231	MINI500	ROTAX582				POWER SECTION		97ZZZX5105
	DURING PATTERN	N WORK, ENGINE FAIL	ED AT ABOUT 500 FE	ET AFTER TAKEOFF.	HELICOPTER WAS	DESTROYED. REASON FO	OR ENGINE FAILURE N	OT GIVEN.	
2430	40LP	BELL				RELAY	INTERMITTENT	708	9/26/97
ZV1R	45233	206L1				SM20ACD200A21	DC SYSTEM		97ZZZX4975
	INTERMITTENT C	PERATION.							
2436	3178K	BELL				VOLT REGULATOR	FAILED		11/28/97
HEEA	45765	206L1				206075447007	DC SYS		HEEA0012144
	VOLT REG WILL N	NOT STAY ON LINE.							
2562	8589X	BELL			NARCO	ELT	DEFECTIVE		11/28/97
HEEA	51487	206L3				ELT910	COCKPIT		HEEA0012146
	ELT SEAL MISSIN	G.							
3212	5019G	BELL				FLOAT	MALFUNCTIONED		11/20/97
HEEA	45247	206L1					SKIDS		97ZZZX5037
		T, FLOATS INADVERTE AUSE FOUND FOR INAL			TED THAT FLOAT P	OWER WAS NOT ARMED A	AT THE TIME. RETURN	ED TO BASE	AND LANDED WITHOUT
3414		BELL				INDICATOR	LEAKAGE		11/28/97
HEEA		206L1				8000	AIR SPEED		HEEA0012143
	AIR SPEED INDICA	ATOR EXCESSIVE CASE	E LEAKAGE.						
3421	206BY	BELL				INDICATOR	FAILED	454	11/18/97
	2871	206B3				500DCF	HORIZON REF		97ZZZX5077
	HORIZON REFERE	ENCE INDICATOR WILL	NOT CAGE.						
3452	2251A	BELL				TRANSPONDER	FAILED		11/28/97
HEEA	45755	206L1			KT76	066106200	COCKPIT		HEEA0012159
	TRANSPONDER N GOOD.	O TEST LIGHT AND NO	POWER. PERFORME	ED PRELIMINARY INS	SPECTION AND FOU	IND REPLY LIGHT DIM, RE	EPLACED V301 PHOTOC	CELL. REPAI	RED. BENCH CHECK
5521		BELL				SPAR	MIS MFG		11/28/97
HEEA		206L1				206023119159	RT ELEV		HEEA0012129
	R/H ELEVATOR SI	PAR IS TOO SHORT. IT	IS 5 1/16" LONG AND	SHOULD BE 5 3/4" L	ONG.				
5610	5007Q	BELL				WINDSHIELD	MIS MFG		11/28/97
HEEA	45187	206L1				M2063401	COCKPIT LT		HEEA0012130
	INBOARD SIDE OF	F WINDSHIELD TOO SH	IORT 3/4".						
6114		BELL		MCAULY		HUB	CRACKED	1187	6/1/96
		206B		E2A34C73		D5347C73	PROPELLER		EY2R9600073
	HUB ASSY CRACK	KED							

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
6240	5012V	BELL				INDICATOR	INOPERATIVE		11/28/97
HEEA	45200	206L1				206070265101	DUAL TACH		HEEA0012147
	NR NEEDLE INOPI	ERATIVE.							
5710	2772A	BELL				ACTUATOR	DEFECTIVE		11/28/97
HEEA	45311	206L1				206062721109	M/R		HEEA0012140
	DROOP COMP DEF	FECT, UNABLE TO ADJU	UST SPREAD TO 3%.	GOV WAS CHANGEI	AT THE SAME TIM	E WITH RATCHETING AR	M.		
250	2138Y	BELL	ALLSN			TURBINE	COKED	13208	10/21/97
	45639	206L1	250C28B			23033185	SCAV OIL PORT	785	97ZZZX4973
****	FLUCTUATED ABO	OUT 10 PERCENT. UPO	N INITIAL INVESTIG	ATION, THE OIL RES	ERVOIR WAS WAY	130 PSI AT A STEADY RA' DOWN AND THE EXHAUS INTO THE TURBINE AND I	T COLLECTOR WAS V	ERY WET WIT	HOIL. SPECULATION
714	3904L	BELL				GAGE	STUCK		11/28/97
IEEA	45597	206L1				206075682001	GAS PROD		HEEA0012142
	GAS PROD GAGE	NEEDLES STICK AT ZEI	RO AT ANY SETTING	ł.					
930	5019G	BELL				INDICATOR	DEFECTIVE		11/28/97
HEEA	45247	206L1			174000103	174035201	ENG OIL		HEEA0012137
	INDICATOR WAS	REMOVED FROM BOWI	L AND CLEANED. IN	STALLED INDICATO	R BACK ON BOWL,	TESTED AND INDICATOR	STILL DIDN'T WORK.		
930	10761	BELL				INDICATOR	FAILED		11/28/97
HEEA	45381	206L1			174000103	174035201	ENG OIL		HEEA0012136
	INDICATOR WAS	REMOVED FROM BOWI	L AND CLEANED. IN	STALLED INDICATO	R BACK ON BOWL,	TESTED AND INDICATOR	STILL DIDN'T WORK.	(BYPASS INO	PERATIVE)
7930	2249Z	BELL				INDICATOR	DEFECTIVE		11/28/97
	2249Z 45753	BELL 206L1			174000103	INDICATOR 174035201	DEFECTIVE ENG OIL		11/28/97 HEEA0012138
	45753	206L1	L AND CLEANED. IN	STALLED INDICATO			ENG OIL		
HEEA	45753	206L1	L AND CLEANED. IN	STALLED INDICATO		174035201	ENG OIL		
HEEA 2432	45753 INDICATOR WAS	206L1 REMOVED FROM BOWI	L AND CLEANED. IN	STALLED INDICATO		174035201 TESTED AND INDICATOR	ENG OIL STILL DIDN'T WORK.		HEEA0012138
HEEA 2432	45753 INDICATOR WAS 1 8045T 28101	206L1 REMOVED FROM BOWI BELL	L AND CLEANED. IN	STALLED INDICATO		174035201 TESTED AND INDICATOR CHARGER	ENG OIL STILL DIDN'T WORK. FAILED		HEEA0012138
HEEA 1432 HEEA	45753 INDICATOR WAS 1 8045T 28101	206L1 REMOVED FROM BOWI BELL 214ST	L AND CLEANED. IN	STALLED INDICATO		174035201 TESTED AND INDICATOR CHARGER	ENG OIL STILL DIDN'T WORK. FAILED		HEEA0012138
HEEA 2432 HEEA 2435	45753 INDICATOR WAS I 8045T 28101 BATTERY WILL N	206L1 REMOVED FROM BOWI BELL 214ST OT STAY CHARGED.	L AND CLEANED. IN	STALLED INDICATO		174035201 TESTED AND INDICATOR CHARGER 214175379103	ENG OIL STILL DIDN'T WORK. FAILED BATTERY		HEEA0012138 11/28/97 HEEA0012153
432 HEEA 435	45753 INDICATOR WAS I 8045T 28101 BATTERY WILL N 5748M	206L1 REMOVED FROM BOWI BELL 214ST OT STAY CHARGED. BELL 214ST	L AND CLEANED. IN	STALLED INDICATO		174035201 TESTED AND INDICATOR CHARGER 214175379103 GENERATOR	ENG OIL STILL DIDN'T WORK. FAILED BATTERY FAILED		HEEA0012138 11/28/97 HEEA0012153 11/28/97
HEEA 432 HEEA 435 HEEA	45753 INDICATOR WAS I 8045T 28101 BATTERY WILL N 5748M 28102	206L1 REMOVED FROM BOWI BELL 214ST OT STAY CHARGED. BELL 214ST	L AND CLEANED. IN	STALLED INDICATO		174035201 TESTED AND INDICATOR CHARGER 214175379103 GENERATOR	ENG OIL STILL DIDN'T WORK. FAILED BATTERY FAILED	1695	HEEA0012138 11/28/97 HEEA0012153 11/28/97
HEEA 2432 HEEA 2435 HEEA 2435	45753 INDICATOR WAS I 8045T 28101 BATTERY WILL N 5748M 28102 GENERATOR INOR	206L1 REMOVED FROM BOWN BELL 214ST OT STAY CHARGED. BELL 214ST PERATIVE.	L AND CLEANED. IN	STALLED INDICATO		174035201 TESTED AND INDICATOR CHARGER 214175379103 GENERATOR 214175150105	ENG OIL STILL DIDN'T WORK. FAILED BATTERY FAILED DC SYS	1695	HEEA0012138 11/28/97 HEEA0012153 11/28/97 HEEA0012154
HEEA 2432 HEEA 2435 HEEA 2435	45753 INDICATOR WAS I 8045T 28101 BATTERY WILL N 5748M 28102 GENERATOR INOR 6957Y 28139	206L1 REMOVED FROM BOWI BELL 214ST OT STAY CHARGED. BELL 214ST PERATIVE. BELL	L AND CLEANED. IN	STALLED INDICATO		174035201 TESTED AND INDICATOR CHARGER 214175379103 GENERATOR 214175150105 STARTER	ENG OIL STILL DIDN'T WORK. FAILED BATTERY FAILED DC SYS FAILED	1695	HEEA0012138 11/28/97 HEEA0012153 11/28/97 HEEA0012154
7930 HEEA 2432 HEEA 2435 HEEA 2435 HEEA	45753 INDICATOR WAS I 8045T 28101 BATTERY WILL N 5748M 28102 GENERATOR INOR 6957Y 28139	206L1 REMOVED FROM BOWN BELL 214ST OT STAY CHARGED. BELL 214ST PERATIVE. BELL 214ST OFF LINE AT 20-30%.	L AND CLEANED. IN	STALLED INDICATO		174035201 TESTED AND INDICATOR CHARGER 214175379103 GENERATOR 214175150105 STARTER 214060056103	ENG OIL STILL DIDN'T WORK. FAILED BATTERY FAILED DC SYS FAILED ENGINE	1695	HEEA0012138 11/28/97 HEEA0012153 11/28/97 HEEA0012154
2432 HEEA 2435 HEEA	45753 INDICATOR WAS I 8045T 28101 BATTERY WILL N 5748M 28102 GENERATOR INOR 6957Y 28139 STARTER FALLS O	206L1 REMOVED FROM BOWN BELL 214ST OT STAY CHARGED. BELL 214ST PERATIVE. BELL 214ST	L AND CLEANED. IN	STALLED INDICATO		174035201 TESTED AND INDICATOR CHARGER 214175379103 GENERATOR 214175150105 STARTER	ENG OIL STILL DIDN'T WORK. FAILED BATTERY FAILED DC SYS FAILED	1695	HEEA0012138 11/28/97 HEEA0012153 11/28/97 HEEA0012154 11/28/97 HEEA0012132

GYRO

060002600

FAILED

COCKPIT VG

BELL

GYRO SLOW TO TURN UP. REMOVED AND REPLACED.

230

4UV

23019

3421

TI1R

10/17/97

97ZZZX5053

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO		
6220	230UN	BELL				BEARING	CORRODED		11/28/97		
HEEA	23009	230				222310460103	M/R		HEEA0012162		
	BEARING HAS CO	RROSION AND PITTING	G INSIDE OF BOLT HO	OLES. SERIAL NUMB	ERS REMOVED ARE	E RX1312 AND RX1293.					
6330	230UN	BELL				BEARING LINER	BROKEN		11/28/97		
HEEA	23009	230				222010548105	XMSN MOUNT		HEEA0012164		
	BEARING LINER IS	S BROKEN.									
2140	407MM	BELL				SHUTOFF VALVE	FAILED	770	11/28/97		
HEEA	53060	407				47127	HEATER SYS		HEEA0012160		
	HEATER SYSTEM	WOULD NOT COME ON	١.								
3452	417PH	BELL				TRANSPONDER	INOPERATIVE		11/28/97		
HEEA	53038	407			KT76	066106200	COCKPIT		HEEA0012158		
	TRANSPONDER IN	OPERATIVE. FOUND U	NIT TO HAVE LOW F	POWER OUT. REPLAC	CED WEAK V101 CA	VITY OSCILLATOR. REPA	AIRED. ADJUSTED AS I	NEEDED. BEN	ICH CHECK GOOD.		
6300	437PH	BELL				LINK	WORN		11/28/97		
HEEA	53072	407				406312103101	M/R DRIVE		HEEA0012165		
	FOUND LINK BEA	RINGS WORN. SERIAL	NUMBERS REMOVE	D ARE NHFS-2945 AN	ID NHFS-2931.						
6321	457PH	BELL				PUCK	UNBONDED	221	11/28/97		
HEEA	53147	407				206340301103	ROTOR BRAKE		HEEA0012163		
	ROTOR BRAKE PUCK CAME UNBONDED.										
6340	57416	BELL				TRANSMITTER	FAILED	1103	11/28/97		
HEEA	53070	407				222375077109	M/R TORQUE		HEEA0012161		
	TORQUE INDICAT	OR ERRATIC.									
6410	417PH	BELL				BLADE	WORN	995	12/2/97		
HEEA	53038	407				407012101105	T/R		HEEA0012170		
	TAIL ROTOR BLAI	DE BEARING WORN. PA	ARTS AND LABOR W	ILL BE INVOICEDW	/O#9700658-99.						
6500	407PH	BELL				BEARING	ROUGH		12/1/97		
HEEA	53003	407			407040320101	406040339105	T/R DRIVE		HEEA0012168		
	ROUGH BEARING.	SERIAL NUMBERS RE	MOVED ARE C97-185	59 AND C97-1844. SCF	RAPPED BEARINGS.						
6500	141MA	BELL				BEARING	ROUGH		12/1/97		
HEEA	53016	407			407040320101	406040339105	T/R DRIVE		HEEA0012169		
	ROUGH BEARING.	SERIAL NUMBERS RE	MOVED ARE C97-188	88 AND K96-2112. SCF	RAPPED BEARINGS.						
6500	447PH	BELL				BEARING	ROUGH		12/1/97		
HEEA	53114	407			406040320101	406040339105	T/R DRIVE		HEEA0012166		
	ROUGH BEARING.	SERIAL NUMBERS RE	MOVED ARE K96-01	16 AND K96-0134.							
6510	417AL	BELL				DISK	CRACKED		9/24/97		
ALGR	53054	407				406040340101	T/R DISK PACK		97ZZZX4979		
	SCHEDULED INSP	ECTION FOUND DISK P	ACK DISK CRACKED	D. REMOVED AND RI	EPLACED. THREE R	EPORTS RECEIVED DATE	D 9-24-97 ON T/R DISK	PACK DISK C	RACKED.		

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
6510	417AL	BELL				DISK	CRACKED		9/24/97
ALGR	53054	407				406040340101	T/R DISK PACK		97ZZZX4978
	SCHEDULED INSE	PECTION FOUND DISK I	PACK DISK CRACKEI	D. THREE REPORTS F	RECEIVED DATED 9-	-24-97 ON T/R DISK PACK I	DISK CRACKED.		
7261	407MM	BELL	ALLSN			FILTER ELEMENT	TRIPPED		11/28/97
HEEA	53060	407	250C47B			23063144	OIL BY PASS		HEEA0012128
	ENGINE EXTERNA	AL OIL FILTER BYPASS	BUTTON POPPED. R	EPLACED WITH SERV	VICEABLE FILTER.				
2160	3893S	BELL				CONTROL	FAILED		11/28/97
HEEA	33022	412				212073927001	TEMP CONTROL		HEEA0012139
	TEMPERATURE C	ONTROL INOPERATIVI	E.						
2312	2149S	BELL				CONTROL UNIT	FAILED		11/28/97
HEEA	36002	412				071121525	COCKPIT		HEEA0012157
	CONTROL DISPLA BENCH CHECK G		RMED PRELIMINARY	INSPECTION AND R	EPLACED V101 PHO	TOCELL AND PHOTOCELI	L LENS, REPAIRED, TES	TED, CHECI	KED 28V LIGHTING.
2822	141PH	BELL				PUMP	FAILED		11/28/97
HEEA	33197	412				164A1681	FUEL BOOST		HEEA0012145
	BOOT PUMP NOIS	Y AND PRESSURE FLU	CTUATIONS.						
5260	3893N	BELL				ACTUATOR	FAILED		11/25/97
HEEA	33010	412				212075418105	STEP		HEEA0012124
	STEP ACTUATOR	INOPERATIVE. WILL N	NOT RETRACT.						
5260	107X	BELL				ACTUATOR	FAILED		11/24/97
HEEA	33113	412				212075418105	STEP		HEEA0012122
	STEP ACTUATOR	WILL NOT ACTUATE.							
5260	108X	BELL				ACTUATOR	FAILED		11/24/97
HEEA	33115	412				212075418105	STEP		HEEA0012121
	STEP ACTUATOR	WILL NOT OPERATE A	T ALL.						
7810	3911L	BELL				DUCT ASSY	CRACKED		11/24/97
HEEA	33023	412				212061202009	LT EXH		HEEA0012123
	EXH DUCT CRAC	KED/MISMANUFACTUF	RED.						
6510		BOEING				ADAPTER	MISALIGNED		11/19/97
CHIR		1072				107D33421	DRIVE SHAFT		CHI1957
	NEW PART RECEI	VED AND ADAPTER HO	OLES MISALIGNED.	(X)					
2312	911PF	BOLKMS				TRANSCEIVER	WEAK		11/28/97
HEEA	S718	BO105S			RT40	40001278500	COCKPIT		HEEA0012126
	TRANSCEIVER -30	ODB WEAK RECEIVER S	SENSITIVITY AT TUR	N ON. REPLACED WI	TH SERVICEABLE P	ART.			
2844	105NC	BOLKMS				TRANSMITTER	MALFUNCTIONED	478	5/28/97
R7MA	790	BO105CBS				DK042	FUEL PRESSURE		97ZZZX5057
	FUEL PRESSURE	UNIT CAUSES PRESSUR	RE GAUGE TO FLUCT	UATE. REPLACED W	ITH NEW UNIT. COR	RRECTED PROBLEM.			

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
2844	203LF	BOLKMS				TRANSMITTER	FAILED	505	11/2/97
7MA	2015	BO105LSA3				DK042	FUEL PRESSURE		97ZZZX5062
	TRANSMITTER UN	NIT INOPERATIVE. LOV	V PRESSURE READIN	IGS. REPLACED WIT	H NEW UNIT, CORR	RECTED PROBLEM.			
844	91070	BOLKMS				TRANSDUCER	FAILED		11/28/97
IEEA	S145	BO105S				BSE206150G3	FUEL PRESS		HEEA0012149
	TRANSDUCER TRA	ANSMITS OUT OF TOLE	ERANCE THROUGHO	UT SCALE.					
844	91070	BOLKMS				TRANSDUCER	SHORTED		11/28/97
EEA	S145	BO105S				BSE20660G1	FUEL PRESS		HEEA0012150
	TRANSDUCER INT	TERNALLY SHORTED.							
344	91070	BOLKMS				TRANSDUCER	FAILED		11/28/97
EEA	S145	BO105S				BSE206150G3	FUEL PRESS		HEEA0012148
	TRANSDUCER INT	TERNALLY SHORTED.							
344	485EC	BOLKMS				TRANSMITTER	ERRATIC	295	10/24/97
7MA	S754	BO105S				DK042	FUEL PRESSURE		97ZZZX5068
		MITTER ERRATIC. RE	PLACED WITH NEW U	UNIT, CORRECTED P	ROBLEM.				
20	202LF	BOLKMS				SWITCH	FAILED	209	7/20/97
'MA	2014	BO105LSA3				6607A2114	OIL PRESSURE		97ZZZX5060
	TRANSMISSION L	IGHT ILLUMINATES DU	JRING FLIGHT. REPL	ACED WITH NEW U	NIT, CORRECTED PI	ROBLEM.			
320	202LF	BOLKMS				SWITCH	FAILED	274	8/27/97
7MA	2014	BO105LSA3				6607A2114	OIL PRESSURE		97ZZZX5059
	TRANSMISSION O	IL PRESSURE LIGHT IL	LUMINATES DURING	FLIGHT. REPLACE	O WITH NEW UNIT,	CORRECTED PROBLEM.			
320	203LF	BOLKMS				SWITCH	FAILED	376	7/20/97
7MA	2015	BO105LSA3				6607A2114	OIL PRESSURE		97ZZZX5063
	WARNING SWITCH	H UNIT INOPERATIVE.	OIL PRESSURE WAR	NING LIGHT WILL N	OT TURN OFF. REP	LACED WITH NEW UNIT,	CORRECTED PROBLEM	[.	
20	203LF	BOLKMS				BUSHING	WORN	283	9/17/97
7MA	2015	BO105LSA3				10560387	MOUNT		97ZZZX5064
	BUSHING ELASTO	MERICS WORN BEYON	ND SERVICEABLE LIN	MITS. REPLACED WI	TH NEW UNIT, COR	RECTED PROBLEM.			
70	203LF	BOLKMS				DRAIN VALVE	LEAKING	330	11/5/97
7MA	2015	BO105LSA3				P101228X	ENGINE		97ZZZX5061
	DRAIN VALVE LE	AKING BEYOND SERVI	CEABLE LIMITS. RE	PLACED WITH NEW	UNIT, CORRECTED	PROBLEM.			
10	105LC	BOLKMS	ALLSN			GEARBOX	BROKEN	4962	11/12/97
	S789	BO105S	250C20			6894171	MOUNT		97ZZZX5078
	ENGINE HAD GEA	RBOX THAT HAD UPPE	ER LEFT COMPRESSO	R MOUNT BROKEN	OFF. FOUND NO RE	ASON FOR BREAKAGE.			
313	135AE	BOLKMS	ALLSN			NOZZLE	CRACKED	393	11/26/97
EEA	S838	BO105S	250C20B		6898735	23060450	TURBINE NR 1		HEEA0012125
		D DUE TO N1 DRAG. U		TURBINE PARTS NO	TED: BURNT AND (CRACKED BEYOND SERV	ICEABLE LIMITS ON NE	R1 NOZZLE V	ANES. INSTALLED A

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
7323	8776	BOLKMS	ALLSN			GOVERNOR	FAILED	436	9/22/97
AC2R	S776	BO105S	250C20B			23057869	ENGINE		97ZZZX4977
	UNABLE TO ADJU	JST DROOP COMP. REP	LACED GOVERNOR.						
7323	5366Y	BOLKMS	ALLSN			GOVERNOR	MALFUNCTIONED	1586	9/11/97
AC2R	S782	BO105S	250C20B			23057869	ENGINE		97ZZZX4976
	GOVERNOR HAS	NO MORE ADJUSTMEN	T FOR COMPENSATI	ON. REPLACED GOV	ERNOR.				
7722	911FL	BOLKMS				INDICATOR	FAILED		11/28/97
HEEA	S717	BO105S				50061036	EXH TEMP		HEEA0012131
	EGT INDICATOR I	HIGH OUT OF TOLERAN	NCE. TIME SINCE RE	EPAIR 0:00.					
7910	54197	BOLKMS				FILTER ASSY	DEFECTIVE		11/28/97
HEEA	S805	BO105S				174000105	SCREEN		HEEA0012135
	FOUND FILTER AS	SSY SCREEN ON OUTPU	JT SIDE BROKEN.						
2430	951AM	BOLKMS				TOGGLE SWITCH	FAILED		10/2/97
R7MA	7017	BK117A3				SP461310	DC SYSTEM		97ZZZX5075
	TOGGLE SWITCH	UNIT INOPERATIVE. W	VILL NOT CLOSE WH	IEN POWER IS 'OFF'.	UNIT IS STUCK IN 'O	N' POSITION. REPLACED	WITH NEW UNIT, CORR	ECTED PRO	BLEM.
2430	17SJ	BOLKMS				TOGGLE SWITCH	INTERMITTENT	325	7/4/97
R7MA	7230	BK117B1				SP461300	DC SYSTEM		97ZZZX5058
	SWITCH UNIT OP	ERATES INTERMITTEN	TLY. ALT. PN 839905	508. REPLACED WITH	H NEW UNIT, CORRE	CTED PROBLEM.			
2435	4493X	BOLKMS				STARTER/GEN	CHAFED	32	10/5/97
TI1R	S7038	BK117A3				23032022	ENGINE		97ZZZX5054
	REMOVED NR 2 S	TARTER/GENERATOR.	FAN CHAFED HOLE	IN SCREEN. REMOV	ED AND REPLACED.				
3244	527MB	BOLKMS				INDICATOR	FAILED	4	10/16/97
TI1R	7103	BK117A3				5090004910	TURN/BANK		97ZZZX5055
	CIRCUIT BREAKE	R TRIPS. INDICATOR F	IAS INTERNAL SHOR	T. REMOVED AND R	EPLACED.				
3310	911VU	BOLKMS				RESISTOR	FAILED	983	9/6/97
R7MA	7141	BK117B1				RV2NBYSD103B	COCKPIT		97ZZZX5074
	VARIABLE RESIS	TOR CAUSES CIRCUIT I	BREAKERS TO TRIP.	REPLACED WITH NE	W UNIT, CORRECTE	D PROBLEM.			
3340	136AE	BOLKMS				POWER SUPPLY	FAILED		11/28/97
HEEA	7234	BK117B2				SPL2501024	STROBE		HEEA0012141
	NO 24 VOLT OUTI	PUT.							
3421	911MZ	BOLKMS				INDICATOR	DEFECTIVE		10/19/97
TI1R	7098	BK117A3				4021541671	HORIZON		97ZZZX5056
	BAD INPUTS TO Y	AW CSAS. NOTE: RED	IMPACT INDICATOR	R. REMOVED AND RI	EPLACED.				
		BOLKMS				TRANSMITTER	FAILED	694	7/17/97
6320	911VU	DOLKNIS							·
6320 R7MA	911VU 7141	BK117B1				IPT20RT1100080G	M/R TRANSMISSION	1	97ZZZX5073

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
6520		BOLKMS				BEARING	MISMANUFACTURE	ID.	10/8/97
TI1R		BK117A3				4639311003	T/R GEARBOX		97ZZZX5080
	TOLERANCES TO	O TIGHT, WOULD NOT	FIT ON SHAFT CORE	RECTLY. REMOVED	AND REPLACED.				
7712	117NG	BOLKMS				PRESSURE XDUCER	FAILED		9/26/97
TI1R	7083	BK117A4				G555674	ENGINE TORQUE		97ZZZX5047
	TORQUE STARTE	D FLUCTUATING THEN	TOTAL FAILURE. R	EMOVED AND REPLA	ACED.				
7712	117NG	BOLKMS				TRANSDUCER	FAILED		10/12/97
TI1R	7083	BK117A4				G555674	ENGINE TORQUE		97ZZZX5046
	TORQUE INDICAT	TOR BEGAN TO SPIN TH	HEN FROZE BELOW 2	ZERO. REMOVED AN	D REPLACED.				
7712	586BH	BOLKMS				TRANSDUCER	FAILED	185	7/23/97
R7MA	7129	BK117A4				G555674	TORQUE		97ZZZX5069
	TORQUE TRANSE	UCER UNIT OPERATES	S INTERMITTENTLY.	REPLACED WITH NI	EW UNIT, CORRECT	ED PROBLEM.			
7712	586BH	BOLKMS				INDICATOR	STICKS	260	10/11/97
R7MA	7129	BK117A4				117940691	ENG TORQUE		97ZZZX5070
	TORQUE INDICAT	TOR'S NR 1 NEEDLE STI	CKS OR BECOMES E	RRATIC. REPLACED	WITH NEW UNIT, C	ORRECTED PROBLEM. RE	PLACED WITH REPAIRI	ED UNIT SN	190.
7712	7060G	BOLKMS				TRANSDUCER	MALFUNCTIONED	645	5/15/97
R7MA	7173	BK117B1				G555674	TORQUE		97ZZZX5071
	TORQUE TRANSE	UCER UNIT CAUSES PI	RESSURE GAUGE TO	FLUCTUATE 10 PERO	CENT. REPLACED W	VITH NEW UNIT, CORRECT	ED PROBLEM.		
7714	424MB	BOLKMS				SPEED PICKUP	FAILED		7/10/97
R7MA	7082	BK117A3				430135601	ENGINE		97ZZZX5065
	SPEED PICKUP U	NIT FAILED TO TEST U	PON INSTALLATION.	REPLACED WITH N	EW UNIT, CORRECT	ED PROBLEM.			
7931	7060G	BOLKMS				TRANSDUCER	FAILED	191	7/24/97
R7MA	7173	BK117B1				IPT70RT11000250G	ENG OIL PRESS		97ZZZX5072
	TRANSDUCER UN	IIT CAUSES PRESSURE	GAUGE TO FLUCTUA	ATE. REPLACED WIT	H NEW UNIT.				
8010	428MB	BOLKMS				SWITCH	FAILED	14	8/6/97
R7MA	7088	BK117A3				151PS01A6A	ENGINE START		97ZZZX5066
	SWITCH UNIT OP	ERATES INTERMITTEN	TLY IN 'ON' POSITIO	N. REPLACED WITH	NEW UNIT, CORREC	CTED PROBLEM.			
2121	317MC	BOLKMS				FAN	INTERMITTENT		10/10/97
TI1R	7505	BK117C1				19A2772	AIR DIST		97ZZZX5049
	FAN INTERMITTE	ENT. REMOVED AND R	EPLACED.						
6710	317MC	BOLKMS				ROD END	CORRODED		5/1/97
TI1R	7505	BK117C1				10513141	M/R		97ZZZX5050
	BOD END BEIECT	ED DUE TO CORROSIO	N. REMOVED AND F	REPLACED.					
	ROD LIVE REJECT								
6710	317MC	BOLKMS				ROD END	CORRODED		5/1/97
6710 TI1R						ROD END 10513142	CORRODED M/R		5/1/97 97ZZZX5048

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO		
7421	317MC	BOLKMS	LYC			IGNITER	WORN		10/16/97		
ΓI1R	7505	BK117C1	LTS101650B1			9550166670	ENGINE		97ZZZX5052		
	IGNITER PLUG WO	ORN DOWN. REMOVED	AND REPLACED.								
3422	102LU	HUGHES				GYRO	FAILED		11/28/97		
HEEA	S1548	269C			KG102A	060001500	COCKPIT		HEEA0012151		
	GYRO POINTS OF	F COURSE.									
400	1097J	HUGHES				EPO ASSEMBLY	FAILED		11/25/97		
	9000801D	369D				369A45143	ENG REIGNITION	439	97ZZZX5076		
	DEFECT IN EPO AS	SSEMBLY CAUSED ENC	GINE OUT AND AUTO	RE-LITE TO COME (ON SENDING THE EF	O ASSEMBLY IN FOR REP	PAIR AND/OR AN OVERI	HAUL.			
340	523FB	HUGHES			WHELEN	LENS	CRACKED	18	11/12/97		
	LN003	500N				A402R	AFT STROBE		97ZZZX4974		
	LENS CRACKED ALONG SEAM. FOUND ON PRE-FLIGHT.										
422	792CH	SKRSKY				GYRO COMPASS	FAILED		11/28/97		
EEA	760193	S76A				258719342	COCKPIT		HEEA0012156		
	GYRO COMPASS V	WANDERING INTERMIT	ΓΤΕΝΤLY.								
210	4253S	SKRSKY				BLADE	SEPARATION	6173	11/28/97		
EEA	760035	S76A				7615009100052A	M/R		HEEA0012134		
	BLADE SEPARATI	ON ON THE TRIM TAB	WHICH IS BEYOND	LIMITS.							
210	4253S	SKRSKY				BLADE	SEPARATION	11750	11/28/97		
EEA	760035	S76A				7615009000049A	M/R		HEEA0012133		
	BLADE SEPARATI	ON ON THE TITANIUM	AND NICKEL ABRA	SION STRIP WHICH I	S BEYOND LIMITS. S	SENT TO					
722	1546G	SKRSKY				INDICATOR	DEFECTIVE		11/28/97		
EEA	760076	S76A				7645001076107	TURB TEMP		HEEA0012155		
	TURB TEMP INDIC	CATOR OUT OF TOLERA	ANCE ON HIGH AND	LOW SCALE.							
420	40466	SNIAS				BEARING	WORN		11/28/97		
EEA	3004	AS350B2				350A33211905	T/R HUB		HEEA0012127		
	BEARING WORN.	REPLACED WITH SERV	ICEABLE PART.								
520	40466	SNIAS				BEARING	SEPARATION	186	12/1/97		

350A33211905

350A33215300

T/R

HEEA

3004

AS350B2

(End of DOMESTIC SERVICE DIFFICULTY REPORT SUMMARY - HELICOPTERS)

BEARING RUBBER SEPARATION.

HEEA0012167

OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
8500	7234Y	AMTR	ROTAX			ENGINE	FAILED		10/26/97
	231	MINI500	ROTAX582				POWER SECTION		97ZZZX5105
	DURING PATTER!	N WORK, ENGINE FAILE	ED AT ABOUT 500 FE	ET AFTER TAKEOFF.	HELICOPTER WAS	S DESTROYED. REASON FO	OR ENGINE FAILURE NO	OT GIVEN.	
8530	1528K	BEECH	CONT			PIN PLUG	BROKEN	1149	11/19/97
	E2453	A36	IO550B			630046	NR 2 CYL PISTON		97ZZZX5098
	ON REMOVAL OF FROM THE END.	NR 2 CYLINDER FOR L	OW COMPRESSION,	THE ONE-PIECE FOR	GED ALUMINUM P	LUG IN THE CENTER OF TH	IE WRIST PIN WAS FOU	ND BROKE	N IN TWO, TWO INCHES
7314	1551L	BEECH	LYC		ROMEC	PUMP	LEAKING	20694	11/17/97
	P391	B60	TIO541E1A4			RG7570K4	FUEL SYSTEM	219	97ZZZX5085
						Y OUT FROM BETWEEN HA ING SURFACES WHEN ASS			
7250	2138Y	BELL	ALLSN			TURBINE	COKED	13208	10/21/97
	45639	206L1	250C28B			23033185	SCAV OIL PORT	785	97ZZZX4973
	NR 6 AND NR 7 SC CHANGED.	CAVENGE STRUT BECA	ME PLUGGED AND T	- ',		DOWN AND THE EXHAUS INTO THE TURBINE AND I	PUMPED IT OVERBOARI		
	1073 13 1								
7261	407MM	BELL	ALLSN			FILTER ELEMENT	TRIPPED		11/28/97
7261 HEEA	53060	407	250C47B			FILTER ELEMENT 23063144	TRIPPED OIL BY PASS		11/28/97 HEEA0012128
	53060		250C47B	EPLACED WITH SERV	VICEABLE FILTER.				
HEEA	53060	407	250C47B	EPLACED WITH SERV	VICEABLE FILTER.			4962	
HEEA	53060 ENGINE EXTERNA	407 AL OIL FILTER BYPASS	250C47B BUTTON POPPED. RI	EPLACED WITH SERV	VICEABLE FILTER.	23063144	OIL BY PASS	4962	HEEA0012128
HEEA	53060 ENGINE EXTERNA 105LC S789	407 AL OIL FILTER BYPASS BOLKMS BO105S	250C47B BUTTON POPPED. RI ALLSN 250C20			23063144 GEARBOX	OIL BY PASS BROKEN	4962	HEEA0012128
7210	53060 ENGINE EXTERNA 105LC S789	407 AL OIL FILTER BYPASS BOLKMS BO105S	250C47B BUTTON POPPED. RI ALLSN 250C20			23063144 GEARBOX 6894171	OIL BY PASS BROKEN	4962	HEEA0012128
	53060 ENGINE EXTERNA 105LC S789 ENGINE HAD GEA	407 AL OIL FILTER BYPASS BOLKMS BO105S ARBOX THAT HAD UPPE	250C47B BUTTON POPPED. RI ALLSN 250C20 ER LEFT COMPRESSO			23063144 GEARBOX 6894171 EASON FOR BREAKAGE.	OIL BY PASS BROKEN MOUNT		HEEA0012128 11/12/97 97ZZZX5078
7210 7313	53060 ENGINE EXTERNA 105LC S789 ENGINE HAD GEA 135AE S838 ENGINE REMOVE	407 AL OIL FILTER BYPASS BOLKMS BO105S ARBOX THAT HAD UPPE BOLKMS BO105S	250C47B BUTTON POPPED. RI ALLSN 250C20 ER LEFT COMPRESSO ALLSN 250C20B PON INSPECTION OF	OR MOUNT BROKEN	OFF. FOUND NO RE	23063144 GEARBOX 6894171 EASON FOR BREAKAGE. NOZZLE	OIL BY PASS BROKEN MOUNT CRACKED TURBINE NR 1	393	HEEA0012128 11/12/97 97ZZZX5078 11/26/97 HEEA0012125
7210 7313 HEEA	53060 ENGINE EXTERNA 105LC S789 ENGINE HAD GEA 135AE S838 ENGINE REMOVE	407 AL OIL FILTER BYPASS BOLKMS BO105S ARBOX THAT HAD UPPE BOLKMS BO105S ED DUE TO N1 DRAG. U	250C47B BUTTON POPPED. RI ALLSN 250C20 ER LEFT COMPRESSO ALLSN 250C20B PON INSPECTION OF	OR MOUNT BROKEN	OFF. FOUND NO RE	23063144 GEARBOX 6894171 EASON FOR BREAKAGE. NOZZLE 23060450	OIL BY PASS BROKEN MOUNT CRACKED TURBINE NR 1	393	HEEA0012128 11/12/97 97ZZZX5078 11/26/97 HEEA0012125
7210 7313	53060 ENGINE EXTERNA 105LC S789 ENGINE HAD GEA 135AE S838 ENGINE REMOVE DALLAS AIRMOT	407 AL OIL FILTER BYPASS BOLKMS BO105S ARBOX THAT HAD UPPE BOLKMS BO105S ED DUE TO N1 DRAG. UIVE OVERHAULED NR1	250C47B BUTTON POPPED. RI ALLSN 250C20 ER LEFT COMPRESSO ALLSN 250C20B PON INSPECTION OF NOZZLE.	OR MOUNT BROKEN	OFF. FOUND NO RE	23063144 GEARBOX 6894171 EASON FOR BREAKAGE. NOZZLE 23060450 CRACKED BEYOND SERVI	OIL BY PASS BROKEN MOUNT CRACKED TURBINE NR 1 CEABLE LIMITS ON NR	393 1 NOZZLE V	HEEA0012128 11/12/97 97ZZZX5078 11/26/97 HEEA0012125 ANES. INSTALLED A
7210 7313 HEEA 7323	53060 ENGINE EXTERNA 105LC S789 ENGINE HAD GEA 135AE S838 ENGINE REMOVE DALLAS AIRMOT 8776 S776	407 AL OIL FILTER BYPASS BOLKMS BO105S ARBOX THAT HAD UPPE BOLKMS BO105S ED DUE TO N1 DRAG. UIVE OVERHAULED NR1 BOLKMS	250C47B BUTTON POPPED. RI ALLSN 250C20 ER LEFT COMPRESSO ALLSN 250C20B PON INSPECTION OF NOZZLE. ALLSN 250C20B	OR MOUNT BROKEN	OFF. FOUND NO RE	GEARBOX 6894171 EASON FOR BREAKAGE. NOZZLE 23060450 CRACKED BEYOND SERVI	OIL BY PASS BROKEN MOUNT CRACKED TURBINE NR 1 CEABLE LIMITS ON NR	393 1 NOZZLE V	HEEA0012128 11/12/97 97ZZZX5078 11/26/97 HEEA0012125 ANES. INSTALLED A 9/22/97
7210 7313 HEEA 7323	53060 ENGINE EXTERNA 105LC S789 ENGINE HAD GEA 135AE S838 ENGINE REMOVE DALLAS AIRMOT 8776 S776	407 AL OIL FILTER BYPASS BOLKMS BO105S ARBOX THAT HAD UPPE BOLKMS BO105S ED DUE TO N1 DRAG. UIVE OVERHAULED NR1 BOLKMS BOLKMS BOLKMS BO105S	250C47B BUTTON POPPED. RI ALLSN 250C20 ER LEFT COMPRESSO ALLSN 250C20B PON INSPECTION OF NOZZLE. ALLSN 250C20B	OR MOUNT BROKEN	OFF. FOUND NO RE	GEARBOX 6894171 EASON FOR BREAKAGE. NOZZLE 23060450 CRACKED BEYOND SERVI	OIL BY PASS BROKEN MOUNT CRACKED TURBINE NR 1 CEABLE LIMITS ON NR	393 1 NOZZLE V	HEEA0012128 11/12/97 97ZZZX5078 11/26/97 HEEA0012125 ANES. INSTALLED A 9/22/97
7210 7313 HEEA 7323 AC2R	53060 ENGINE EXTERNA 105LC S789 ENGINE HAD GEA 135AE S838 ENGINE REMOVE DALLAS AIRMOT 8776 S776 UNABLE TO ADJU	407 AL OIL FILTER BYPASS BOLKMS BO105S ARBOX THAT HAD UPPE BOLKMS BO105S ED DUE TO N1 DRAG. UIVE OVERHAULED NR1 BOLKMS BO105S UST DROOP COMP. REP	250C47B BUTTON POPPED. RI ALLSN 250C20 ER LEFT COMPRESSO ALLSN 250C20B PON INSPECTION OF NOZZLE. ALLSN 250C20B PLACED GOVERNOR.	OR MOUNT BROKEN	OFF. FOUND NO RE	23063144 GEARBOX 6894171 EASON FOR BREAKAGE. NOZZLE 23060450 CRACKED BEYOND SERVI GOVERNOR 23057869	OIL BY PASS BROKEN MOUNT CRACKED TURBINE NR 1 CEABLE LIMITS ON NR FAILED ENGINE	393 1 NOZZLE V 436	HEEA0012128 11/12/97 97ZZZX5078 11/26/97 HEEA0012125 ANES. INSTALLED A 9/22/97 97ZZZX4977
7210 7313 HEEA 7323 AC2R	53060 ENGINE EXTERNA 105LC S789 ENGINE HAD GEA 135AE S838 ENGINE REMOVE DALLAS AIRMOT 8776 S776 UNABLE TO ADJU 5366Y S782	407 AL OIL FILTER BYPASS BOLKMS BO105S ARBOX THAT HAD UPPE BOLKMS BO105S ED DUE TO N1 DRAG. UIVE OVERHAULED NR1 BOLKMS BO105S UST DROOP COMP. REP BOLKMS	250C47B BUTTON POPPED. RI ALLSN 250C20 ER LEFT COMPRESSO ALLSN 250C20B PON INSPECTION OF NOZZLE. ALLSN 250C20B PLACED GOVERNOR. ALLSN 250C20B	OR MOUNT BROKEN (OFF. FOUND NO RE 6898735 TED: BURNT AND	GEARBOX 6894171 EASON FOR BREAKAGE. NOZZLE 23060450 CRACKED BEYOND SERVI GOVERNOR 23057869 GOVERNOR	OIL BY PASS BROKEN MOUNT CRACKED TURBINE NR 1 CEABLE LIMITS ON NR FAILED ENGINE MALFUNCTIONED	393 1 NOZZLE V 436	HEEA0012128 11/12/97 97ZZZX5078 11/26/97 HEEA0012125 ANES. INSTALLED A 9/22/97 97ZZZX4977 9/11/97
7210 7313 HEEA 7323 AC2R	53060 ENGINE EXTERNA 105LC S789 ENGINE HAD GEA 135AE S838 ENGINE REMOVE DALLAS AIRMOT 8776 S776 UNABLE TO ADJU 5366Y S782	407 AL OIL FILTER BYPASS BOLKMS BO105S ARBOX THAT HAD UPPE BOLKMS BO105S D DUE TO N1 DRAG. UIVE OVERHAULED NR1 BOLKMS BO105S UST DROOP COMP. REP BOLKMS BO105S	250C47B BUTTON POPPED. RI ALLSN 250C20 ER LEFT COMPRESSO ALLSN 250C20B PON INSPECTION OF NOZZLE. ALLSN 250C20B PLACED GOVERNOR. ALLSN 250C20B	OR MOUNT BROKEN (OFF. FOUND NO RE 6898735 TED: BURNT AND	GEARBOX 6894171 EASON FOR BREAKAGE. NOZZLE 23060450 CRACKED BEYOND SERVI GOVERNOR 23057869 GOVERNOR	OIL BY PASS BROKEN MOUNT CRACKED TURBINE NR 1 CEABLE LIMITS ON NR FAILED ENGINE MALFUNCTIONED	393 1 NOZZLE V 436	HEEA0012128 11/12/97 97ZZZX5078 11/26/97 HEEA0012125 ANES. INSTALLED A 9/22/97 97ZZZX4977 9/11/97
7210 7313 HEEA 7323 AC2R 7323 AC2R	53060 ENGINE EXTERNA 105LC S789 ENGINE HAD GEA 135AE S838 ENGINE REMOVE DALLAS AIRMOT 8776 S776 UNABLE TO ADJU 5366Y S782 GOVERNOR HAS	407 AL OIL FILTER BYPASS BOLKMS BO105S ARBOX THAT HAD UPPE BOLKMS BO105S ED DUE TO N1 DRAG. UIVE OVERHAULED NR1 BOLKMS BO105S UST DROOP COMP. REP BOLKMS BO105S NO MORE ADJUSTMEN	250C47B BUTTON POPPED. RI ALLSN 250C20 ER LEFT COMPRESSO ALLSN 250C20B PON INSPECTION OF NOZZLE. ALLSN 250C20B PLACED GOVERNOR. ALLSN 250C20B T FOR COMPENSATION	OR MOUNT BROKEN (OFF. FOUND NO RE 6898735 TED: BURNT AND	GEARBOX 6894171 EASON FOR BREAKAGE. NOZZLE 23060450 CRACKED BEYOND SERVI GOVERNOR 23057869 GOVERNOR 23057869	OIL BY PASS BROKEN MOUNT CRACKED TURBINE NR 1 CEABLE LIMITS ON NR FAILED ENGINE MALFUNCTIONED ENGINE	393 1 NOZZLE V 436	HEEA0012128 11/12/97 97ZZZX5078 11/26/97 HEEA0012125 ANES. INSTALLED A 9/22/97 97ZZZX4977 9/11/97 97ZZZX4976

DOMEGRIC GEDING	DIEDICI II TV DEDODT	CIDALLOS	ENIGNIEG (
DOMESTIC SERVICE	E DIFFICULTY REPORT	SUMMARY -	· EINCHNES (CONFO)

DOMESTI	DOMESTIC SERVICE DIFFICULTY REPORT SUMMARY - ENGINES (cont'd) 12/7/97 To 12/13/97 ISSUE: 97-50 ZAC-327											
ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO			
8530	414YH	CESSNA	CONT			CYLINDER	CRACKED		10/14/97			
DOKA	414A0514	414A	TSIO520NB			642594F	ENGINE	364	97ZZZX5107			
	OIL LEAKED FROM THE CRACKED CYLINDER WHICH FLOWED ONTO THE EXHAUST SYSTEM AND CAUSED SOME SMOKE TO BE FORCED INTO THE CABIN. THE PILOT DID A PRECAUTIONARY SHUT DOWN AND LANDED AT RAPID CITY WITHOUT ANY FURTHER INCIDENT.											
8520	38938	DHAV	PWA			STUD	DEFECTIVE	98	7/8/96			
	424	DHC2*	R985*				NR 1 CYLINDER		97ZZZX5036			
	NR 1 CYLINDER STUD DEFECTIVE. THIS IS A COMMON PROBLEM TO THESE ENGINES. THE BASIC PROBLEM HERE IS HOW THE AD READS. SUBMITTER BELIEVES THERE IS A NEED TO REVISE THE WORDING.											

(End of DOMESTIC SERVICE DIFFICULTY REPORT SUMMARY - ENGINES)

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO	
2562	8589X	BELL			NARCO	ELT	DEFECTIVE		11/28/97	
HEEA	51487	206L3				ELT910	COCKPIT		HEEA0012146	
	ELT SEAL MISSIN	G.								
3414		BELL				INDICATOR	LEAKAGE		11/28/97	
HEEA		206L1				8000	AIR SPEED		HEEA0012143	
	AIR SPEED INDICA	ATOR EXCESSIVE CASE	E LEAKAGE.							
3421	206BY	BELL				INDICATOR	FAILED	454	11/18/97	
	2871	206B3				500DCF	HORIZON REF		97ZZZX5077	
	HORIZON REFERE	ENCE INDICATOR WILL	NOT CAGE.							
3452	2251A	BELL				TRANSPONDER	FAILED		11/28/97	
HEEA	45755	206L1			KT76	066106200	COCKPIT		HEEA0012159	
	TRANSPONDER N GOOD.	O TEST LIGHT AND NO	POWER. PERFORME	ED PRELIMINARY INS	SPECTION AND FOU	ND REPLY LIGHT DIM, RI	EPLACED V301 PHOTO	OCELL. REPAI	RED. BENCH CHECK	
3421	4UV	BELL				GYRO	FAILED		10/17/97	
TI1R	23019	230				060002600	COCKPIT VG		97ZZZX5053	
	GYRO SLOW TO T	URN UP. REMOVED A	ND REPLACED.							
3421	4UV	BELL				GYRO	FAILED		10/13/97	
TI1R	23019	230			KBV350	060002600	COCKPIT VG		97ZZZX5051	
	GYRO WILL NOT	SPOOL UP COMPLETEL	Y. REMOVED AND I	REPLACED.						
3452	417PH	BELL				TRANSPONDER	INOPERATIVE		11/28/97	
HEEA	53038	407			KT76	066106200	COCKPIT		HEEA0012158	
	TRANSPONDER IN	NOPERATIVE. FOUND U	INIT TO HAVE LOW I	POWER OUT. REPLAC	CED WEAK V101 CA	VITY OSCILLATOR. REPA	IRED. ADJUSTED AS	NEEDED. BEN	ICH CHECK GOOD.	
2312	2149S	BELL				CONTROL UNIT	FAILED		11/28/97	
HEEA	36002	412				071121525	COCKPIT		HEEA0012157	
	CONTROL DISPLA BENCH CHECK GO		RMED PRELIMINARY	INSPECTION AND R	EPLACED V101 PHO	TOCELL AND PHOTOCELI	L LENS, REPAIRED, TH	ESTED, CHECK	KED 28V LIGHTING.	
2312	911PF	BOLKMS				TRANSCEIVER	WEAK		11/28/97	
HEEA	S718	BO105S			RT40	40001278500	COCKPIT		HEEA0012126	
	TRANSCEIVER -30	DB WEAK RECEIVER S	SENSITIVITY AT TUR	N ON. REPLACED WI	TH SERVICEABLE P	ART.				
3421	911MZ	BOLKMS				INDICATOR	DEFECTIVE		10/19/97	
TI1R	7098	BK117A3				4021541671	HORIZON		97ZZZX5056	
	BAD INPUTS TO YAW CSAS. NOTE: RED IMPACT INDICATOR. REMOVED AND REPLACED.									
3422	102LU	HUGHES				GYRO	FAILED		11/28/97	
HEEA	S1548	269C			KG102A	060001500	COCKPIT		HEEA0012151	
	GYRO POINTS OF	F COURSE.								

DOMESTIC SERVICE	EDIFFICULTY REPORT SUMMARY -	COMPONENTS (cont'd)

DOMESTI	C SERVICE DIFF	ICULTY REPORT	SUMMARY - CON		<u>12/7/97 T</u>	o 12/13/97	ISSUE: 97-50 ZAC-327			
ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO	
2210	4082T	PIPER			KING	SWITCH	MALFUNCTIONED)	11/19/97	
	318152089	PA31350			KFC200	065501100	AUTOPILOT	306	97ZZZX5102	
		IGHT CHECK, PILOT TI IAT THE PART BE TSO'			T WOULD TEST OK	IN THE DOWN POSITION	BUT WOULD NOT TES	ST IN THE UP	POSITION. SUBMITTER	
2210	4082T	PIPER			KING	SWITCH	FAILED	541	11/15/97	
	318152089	PA31350			KFC200	065501100	AUTOPILOT		97ZZZX5101	
	SYSTEM WAS FOU CONSTRUCTION. DIFFERENT TEMPS	IND TO DISCONNECT I INNER AND OUTER HO	N THE DOWN POSITI DUSINGS ARE OF DIS OVER-ENGINEERED.	ON SOMETIMES, AN SIMILAR METAL AN ONE SIMPLE TSO TO	D WOULD NOT DISC D DO NOT EXPAND A D REMOVE THE SWIT	OT TEST OR DISCONNEC ONNECT IN THE UP POSI AND CONTRACT AT THE ICH FROM THE SYSTEM	TION. THE SWITCH IS SAME RATE NOT ALL	OF VERY PO	OR DESIGN AND SWITCH TO MOVE AT	
2215	9284X	PIPER			KING	SCREWS	LOOSENED	235	11/7/97	
	4636087	PA46350P			KS270A	089606705	PITCH SERVO		97ZZZX5040	
****	SERVO NOT WORK	KING PROPERLY. REM	OVED FROM AIRCRA	AFT AND FOUND THE	REE SCREWS BACKE	D OUT UNTIL THEY HIT	PLATE 073-0515-03. SCI	REWS NEED I	LOCTITE.	
3422	792CH	SKRSKY				GYRO COMPASS	FAILED		11/28/97	
HEEA	760193	S76A				258719342	COCKPIT		HEEA0012156	
	GYRO COMPASS WANDERING INTERMITTENTLY.									

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
6110		ADAMS		MCAULY		RETAIN RING	CRACKED		8/1/96
		A55		2AF34C55		C3112	RPOP		EY2R9600102
	PROP RETAIN RIN	IG CRACKED							
6110		BBAVIA		HARTZL		BEARING	CRACKED		12/1/96
		8GCBC		HCC2YF1		2202	PROP ASSY		EY2R9600191
	PROP ASSY BEAR	ING CRACKED							
6110		BEECH		HARTZL		PILOT TUBE	CRACKED	2018	6/1/96
		100BEECH		HCB3TN3		18912A	PROPELLER		EY2R9600075
	PROPELLER ASSY	PILOT TUBE CRACKE	D						
6110		BEECH		HARTZL		BULKHEAD	CRACKED	9815	10/1/96
		B100		HCB3TN3		3064	PROP ASSY	1746	EY2R9600150
	PROP ASSY CRAC	KED BULKHEAD							
6114		BEECH		MCAULY		HUB	CRACKED		7/1/96
		3533		2A36C23		C4239C23	PROP		EY2R9600090
	HUB CRACKED								
6114		BEECH		MCAULY		HUB	CRACKED		7/1/96
		3533		2A36C23		C4239C23	PROP		EY2R9600091
	HUB CRACKED IN	THREAD AREA							
6114		BEECH		MCAULY		HUB	CRACKED		12/1/96
		35B33		2A36C23		C2835C23	NR 2 SOCKET	238	EY2R9600164
	HUB NR2 SOCKET	T, HAS CRACK 12" LONG	3						
6110		BEECH		MCAULY		NUT	CORRODED		1/1/96
		35BEECH		3A32C76		C4904	PROP ASSY		EY2R9600213
	PROP ASSY NUT I	S CORRODED							
6110		BEECH		MCAULY		RETAIN BEARING	CORRODED		1/1/96
		35BEECH		3A32C76		C2987	PROP ASSY		EY2R9600212
	PROP ASSY RETA	IN BEARING CORRODE	CD .						
6110		BEECH		MCAULY		ACTUATING PIN	CORRODED		1/1/96
		35BEECH		3A32C76		B4460	BLADE		EY2R9600211
	BLADE ACTUATII	NG PIN IS CORRODED							
6110		BEECH		MCAULY		DOWEL	CORRODED		1/1/96
		35BEECH		3A32C76		A4001	PROP ASSY		EY2R9600210
	PROP ASSY DOW	EL IS CORRODED							
6111		BEECH		MCAULY		BLADE	CORRODED		1/1/96
		35BEECH		3A32C76		S82NC2	PROP ASSY		EY2R9600215
	BLADE SN K10339	99YS IS CORRODED							

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ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
6111		BEECH		MCAULY		BLADE	CORRODED		1/1/96
		35BEECH		3A32C76		S82NC2	PROP ASSY		EY2R9600214
	BLADE SN K10384	46YS IS CORRODED							
6111		BEECH		BEECH		BEARING	CRACKED		11/1/96
		D35		215*		2153192	BLADE		EY2R9600157
	BLADE BEARING	RACE CRACKED							
6114		ВЕЕСН		MCAULY		HUB	CRACKED		5/1/96
		35BEECH		3A32C76		C4211C76	SOCKET		EY2R9600054
	HUB BLADE SOCI	KET CRACKED							
6114		BEECH		MCAULY		HUB	CRACKED		7/1/96
		V35		2A36C23		C4239C23	THREAD AREA		EY2R9600089
	HUB CRACKED IN	N THREAD AREA							
6114		BEECH		MCAULY		HUB	CORRODED		1/1/96
		V35		3A32C76		D6602C76	PROP ASSY		EY2R9600209
	PROP HUB ASSY I	IS CORRODED							
6114		BEECH		MCAULY		HUB	CRACKED		10/1/96
		V35		3A32C76		D6602C76	THREAD AREA		EY2R9600115
	HUB CRACKED IN	N THREAD AREA							
6114		BEECH		MCAULY		HUB	CRACKED		9/1/96
		V35A		3A32C76		D6602C76	THREAD AREA		EY2R9600107
	HUB CRACKED IN	N THREAD AREA							
6111		BEECH		MCAULY		NUT	CRACKED		10/1/96
		36BEECH		2A36C23		C2463	BLADE RETAIN		EY2R9600133
	BLADE RETAIN N	UT CRACKED							
6114		BEECH		MCAULY		HUB	CRACKED		12/1/96
		36BEECH		2A36C23		C6447C23	BOLT SOCKETS		EY2R9600179
	HUB ASSY CRACE	KED IN BOLT SOCKETS							
6110		BEECH		HARTZL		FORK	CRACKED		12/1/96
		9555		PHCC3YF2		3252	PITCH CHANGE		EY2R9600173
	PROP ASSY PITCH	I CHANGE FORK IS CRA	CKED						
6114		BEECH		MCAULY		HUB	CRACKED		7/1/96
		9555		3AF32C75		D5892C75	THREAD AREA		EY2R9600093
	HUB CRACKED IN	THREAD AREA							
6110		BEECH		HARTZL		PITCH CHANGE BLK	CRACKED	4833	4/1/96
		58P		PHCJ3YF2		32532	PROP ASSY	1698	EY2R9600053

PROP ASSY HAS A PITCH CHANGE BLOCK CRACKED

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ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
6110		BEECH		HARTZL		SPRING RETAINER	CRACKED		4/1/96
		58P		PHCJ3YF2		15921	PROP ASSY		EY2R9600052
	PROP ASSY HAS A	CRACKED SPRING RE	TAINER						
6114		BEECH		MCAULY		HUB	CRACKED		7/1/96
		58		2AF34C55		C4206C55	SOCKET		EY2R9600092
	HUB CRACKED IN BOTH BLADE SOCKETS								
6110		BEECH		HARTZL		PILOT TUBE	CRACKED		10/1/96
		B90		HCB3TN3		1891	PROP ASSY		EY2R9600122
	PROP ASSY IS CRACKED . ALL 3 PILOT TUBES								
6110		BEECH		HARTZL		BEARING	CRACKED		10/1/96
		B90		HCB3TN3		1851T	PROP		EY2R9600121
	PROP ASSY BEAR	ING CRACKED							
6114		BELL		MCAULY		HUB	CRACKED	1187	6/1/96
		206B		E2A34C73		D5347C73	PROPELLER		EY2R9600073
	HUB ASSY CRACK	KED							
6110		CESSNA		MCAULY		PROPELLER	CRACKED		10/1/96
		152		1A103TCM			LE BOLT HOLES		EY2R9600114
	2 CRACKS IN LEA	D EDGE BOLT HOLES							
6110		CESSNA		MCAULY		PROPELLER	CORRODED		1/1/96
		152		1A103TCM			HUB ASSY		EY2R9600192
	FIXED PITCH PRO	P ASSY IS CORRODED							
6114		CESSNA		MCAULY		HUB	CRACKED		10/1/96
		180		2A34C*		C1579C18	THREAD AREA		EY2R9600130
	HUB CRACKED IN	THREADS AREA							
6114		CESSNA		MCAULY		HUB	CRACKED		10/1/96
		180A		2A34C66		C5480C66	MT FLANGE		EY2R9600131
	HUB CRACKED IN	MOUNTING FLANGE							
6114		CESSNA		MCAULY		HUB	CRACKED		10/1/96
		180G		2A36C29		C4526C29	PROP ASSY		EY2R9600135
	PROP HUB ASSY C	CRACKED							
6110		CESSNA		MCAULY		CYLINDER	CORRODED	2617	1/1/96
		182P		2A34C201		C5263	PROP ASSY		EY2R9600195
	PROP ASSY CYLIN	NDER CORRODED							
6110		CESSNA		MCAULY		PISTON ROD PIN	CORRODED	2617	1/1/96
		182P		2A34C201		B3414	PROP ASSY		EY2R9600193
	PROP ASSY PISTO	N ROD PIN ASSY CORR	ODED						

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ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
6110		CESSNA		MCAULY		SPLIT RETAINER	CORRODED	2617	1/1/96
		182P		2A34C201		C3903	PROP ASSY		EY2R9600194
	PROP ASSY SPLIT	RETAINER CRACKED							
6110		CESSNA		MCAULY		RETAIN BEARING	CORRODED	2617	1/1/96
		182P		2A34C201		C5270	PROP ASSY		EY2R9600196
	PROP ASSY RETAIN BEARING CORRODED								
6110		CESSNA		MCAULY		PROPELLER	CORRODED		1/1/96
		182Q		2A34C203			PROP ASSY	158	EY2R9600199
	PROP ASSY IS COI	RRODED							
6111		CESSNA		MCAULY		BLADE	CRACKED		10/1/96
		182		2A36C29		S90M8	THREAD AREA		EY2R9600134
	BLADE SN A4420Y	S, THREAD AREA CRA	CKED						
6111		CESSNA		MCAULY		BLADE	CORRODED		1/1/96
		182		2A34C201		90DA8	PROP ASSY		EY2R9600198
	BLADE ASSY SN F	339063 IS CORRODED							
6111		CESSNA		MCAULY		BLADE	CORRODED		1/1/96
		182		2A34C201		90DA8	PROP ASSY		EY2R9600197
	BLADE ASSY SN (C78439 IS CORRODED							
6111		CESSNA		MCAULY		BLADE	CORRODED		1/1/96
		182J		2A34C66		90AT8	PROP ASSY		EY2R9600200
	BLADE ASSY SN (C37703 IS CORRODED							
6114		CESSNA		MCAULY		HUB	CRACKED		12/1/96
		182		E2A34C73		C5347C73	THREAD CRACKE	ED	EY2R9600171
	THREAD AREAS C	F HUB CRACKED							
6114		CESSNA		MCAULY		HUB	CRACKED		10/1/96
		182		D2A34C58		C4716C58	PROP ASSY		EY2R9600142
	PROP ASSY HUB C	CRACKED							
6114		CESSNA		MCAULY		HUB	CRACKED		9/1/96
		182P		2A34C66		C5480C66	THREAD AREA		EY2R9600106
	HUB CRACKED IN	THREAD AREA							
6110		CESSNA		MCAULY		NUT	CRACKED		10/1/96
		188CESSNA		D2A34C98		C4902	PROP HUB		EY2R9600145
	NUT CRACKED W	ITH HUB							
6111		CESSNA		MCAULY		NUT	CRACKED		5/1/96
		188CESSNA		D2A34C98		C4902	BLADE		EY2R9600063
	BLADE NUT CRAC	CKED							

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DOMEST	TIC SERVICE DIF	FICULTY REPORT	SUMMARY - PRO	OPELLERS (cont'd			<u>12/7/97 T</u>	To 12/13/97	ISSUE: 97-50 ZAC-327
ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
6114		CESSNA		MCAULY		HUB	CRACKED	2666	6/1/96
		188B		D2A34C98		C4716C98	THREAD AREA	1333	EY2R9600072
	HUB CRACKED IN	THREAD AREA							
6114		CESSNA		MCAULY		HUB	CRACKED		10/1/96
		188CESSNA		2A34C66		C5480C66	THREAD AREA		EY2R9600132
	HUB CRACKED IN THREADS								
6114		CESSNA		MCAULY		HUB	CRACKED		12/1/96
		188CESSNA		B2A34C205		D6608C205	THREAD AREA		EY2R9600182
	HUB ASSY CRACKED THREADS								
6114		CESSNA		MCAULY		HUB	CRACKED		10/1/96
		188CESSNA		D2A34C98		C4716C98	PROP ASSY		EY2R9600144
	RED DYE LEAK. I	HUB CRACKED							
6114		CESSNA		MCAULY		HUB	CRACKED		10/1/96
		188CESSNA		D2A34C58		C4716C58	NR 2 SOCKET		EY2R9600143
	HUB CRACKED IN	NR2 SOCKET							
6114		CESSNA		MCAULY		HUB	CRACKED		12/1/96
		188CESSNA		B2A34C205		D6608C205	THREAD AREA		EY2R9600181
	HUB ASSY CRACK	KED THREADS							
6114		CESSNA		MCAULY		HUB	CRACKED		5/1/96
		188CESSNA		D2A34C98		C4716C203	NR 2 SOCKET		EY2R9600062
	HUB CRACKED IN	NR2 SOCKET							
6110		CESSNA		MCAULY		NUT	CORRODED	4513	1/1/96
		U206F		3AF32C*		C4902	PROP ASSY		EY2R9600242
	PROP ASSY NUT I	S CORRODED							
6110		CESSNA		MCAULY		FERRULE	CORRODED		1/1/96
		U206F		3AF32C*		C4451	PROP ASSY		EY2R9600241
	PROP ASSY FERRI	ULE IS CORRODED							
6110		CESSNA		MCAULY		FERRULE	CORRODED	4513	1/1/96
		U206F		3AF32C*		C4451	PROP ASSY		EY2R9600240
	PROP ASSY FERRI	ULE IS CORRODED							
6110		CESSNA		MCAULY		RETAIN BEARING	CORRODED	4513	1/1/96
		U206F		3AF32C*		C2987	PROP ASSY		EY2R9600239
	PROP ASSY RETA	IN BEARING IS CORRO	DED						
6111		CESSNA		MCAULY		FERRULE	CRACKED		12/1/96
		P206C		D3A32C88		C4451	BLADE	512	EY2R9600170
	BLADE PIN HOLE	DIMPLED, CAUSED FER	RRULE CRACK						

DOMESTIC SERVICE DIFFICULTY REPORT SUMMARY - PROPELLERS (c.		
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DOMESTIC SERVICE DIFFICULTY REPORT SUMMARY - PROPELLERS (cont'd)								12/7/97 To 12/13/97 ISSUE: 97-50 ZAC-327			
ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO		
6111		CESSNA		MCAULY		BLADE	CORRODED	4513	1/1/96		
		U206F		3AF32C*		82NC2	PROP ASSY		EY2R9600238		
	BLADE SN KK041	YSI CORRODED									
6114		CESSNA		MCAULY		HUB	CRACKED		12/1/96		
		P206C		D3A32C88		D3944C88	NR 2 SOCKET	512	EY2R9600169		
	HUB ASSY NR2 SO	OCKET, NR5 THREAD C	RACKED, 2" LONG								
6114		CESSNA		MCAULY		HUB	CORRODED	4513	1/1/96		
		U206F		3AF32C*		D5904C90	PROP ASSY		EY2R9600243		
	PROP ASSY HUB I	S CORRODED									
6110		CESSNA		MCAULY		RETAIN NUT	CRACKED		12/1/96		
		210		E2A34C73		C3092	PROP ASSY		EY2R9600180		
	PROP ASSY RETA	IN NUT CRACKED THR	EADS								
6110		CESSNA		MCAULY		RETAIN NUT	CRACKED		10/1/96		
		210		D2A36C33		C1976	PROP ASSY		EY2R9600146		
	PROP ASSY RETA	IN NUT CRACKED									
6114		CESSNA		MCAULY		HUB	CRACKED		12/1/96		
		210		D2A34C58		C4716C58	NR 1 SOCKET		EY2R9600187		
	HUB ASSY CRACK	KED IN NR1 SOCKET									
6114		CESSNA		MCAULY		HUB	CRACKED		10/1/96		
		210		D2A36C33		C2715C33	NR 1 SOCKET		EY2R9600147		
	HUB CRACKED IN	NR1 SOCKET									
6110		CESSNA		MCAULY		RETAIN BEARING	CORRODED	2184	1/1/96		
		T303		3AF32C506		C5270	PROP ASSY		EY2R9600216		
	PROP ASSY RETA	IN BEARING IS CORRO	DED								
6110		CESSNA		MCAULY		RET. BEARING	CORRODED		1/1/96		
		310		3AF32C87		C2987	PROP ASSY		EY2R9600220		
	PROP ASSY RETA	IN BEARING IS CORRO	DED								
6110		CESSNA		MCAULY		FEATHER CYLINDER	CORRODED		1/1/96		
		310		3AF32C87		C3550	PROP ASSY		EY2R9600226		
	PROP ASSY FEATI	HER CYLINDER IS COR	RODED								
6110		CESSNA		MCAULY		RETAIN BEARING	CORRODED		1/1/96		
		310		3AF32C87		C2987	PROP ASSY		EY2R9600235		
	PROP ASSY RETA	IN BEARING CORRODE	D								
6110		CESSNA		MCAULY		ACTUATING PIN	CORRODED		1/1/96		
		310		3AF32C87		B4459	BLADE		EY2R9600234		
	BLADE ACTUATII	NG PIN IS CORRODED									

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6110		CESSNA		MCAULY		FEATHER CYLINDER	CORRODED		1/1/96
		310R		3AF32C87		C3550	PROP ASSY		EY2R9600227
	PROP FEATHER C	YLINDER IS CORRODE	D						
6110		CESSNA		MCAULY		RETAIN BEARING	CORRODED		1/1/96
		310R		3AF32C87		C2987	PROP ASSY		EY2R9600219
	PROP ASSY RETA	IN BEARING CORRODE	D						
6110		CESSNA		MCAULY		RETAIN BEARING	CORRODED		1/1/96
		310R		3AF32C87		C2987	PROP ASSY		EY2R9600221
	PROP ASSY RETA	IN BEARING CORRODE	D						
6110		CESSNA		MCAULY		FERRULE	CRACKED		12/1/96
		310R		3AF32C87		C4451	PROP ASSY	1223	EY2R9600166
	5 HOLES IN BLAD	E PIN HOLE, DIMPLED	AND FERRULE CRAC	CKED					
6110		CESSNA		MCAULY		RETAIN BEARING	CORRODED		1/1/96
		310R		3AF32C87		C2987	PROP ASSY		EY2R9600223
	PROP ASSY RETA	IN BEARING IS CORRO	DED						
6111		CESSNA		MCAULY		BLADE	CORRODED		1/1/96
		310		3AF32C87		82NC55	PROP ASSY		EY2R9600231
	BLADE SN K62721	YS IS CORRODED							
6111		CESSNA		MCAULY		BLADE	CRACKED		10/1/96
		310		3AF32C87		S82NC4	NR 1 SOCKET		EY2R9600117
	BLADE NR1 SOCK	ET CRACKED							
6111		CESSNA		MCAULY		BLADE	CORRODED		1/1/96
		310		3AF32C87		S82NC55	PROP ASSY		EY2R9600237
	BLADE SN K62727	YS IS CORRODED							
6111		CESSNA		MCAULY		BLADE	CORRODED		1/1/96
		310		3AF32C87		82NC55	PROP ASSY		EY2R9600233
	BLADE SN K62754	YS IS CORRODED							
6111		CESSNA		MCAULY		BLADE	CORRODED		1/1/96
		310		3AF32C87		82NC55	PROP ASSY		EY2R9600232
	BLADE SN K62780	YS IS CORRODED							
6111		CESSNA		MCAULY		BLADE	CRACKED		5/1/96
		310		3AF32C87		S82NC55	THREADS		EY2R9600056
	BLADE SN F651YS	S, THREADS CRACKED							
6111		CESSNA		MCAULY		BLADE	CORRODED		1/1/96
		310R		3AF32C87		S82NC4	PROP ASSY		EY2R9600230
	BLADE SN F40097	YS IS CORRODED							

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ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
6114		CESSNA		MCAULY			CRACKED		7/1/96
		310		D2A34C*		C65 HUB	THREAD AREA		EY2R9600099
	HUB CRACKED IN	THREAD AREA							
6114		CESSNA		MCAULY		HUB	CRACKED		6/1/96
		310		3AF32C87		D7015C87	SOCKETS		EY2R9600069
	HUB ASSY HAS AI	LL THREE SOCKETS CR	ACKED						
6114		CESSNA		MCAULY		HUB	CRACKED		7/1/96
		310		D2AF34C65		D4237C65	NR 2 SOCKET		EY2R9600100
	HUB CRACKED IN	NR2 SOCKET							
6114		CESSNA		MCAULY		HUB	CRACKED		5/1/96
		310		3AF32C87		D7015C87	THREAD AREA		EY2R9600055
	HUB CRACKED IN	THREAD AREA							
6114		CESSNA		MCAULY		HUB	CORRODED		1/1/96
		310		3AF32C87		D7015C87	PROP ASSY		EY2R9600236
	PROP ASSY HUB I	S CORRODED							
6114		CESSNA		MCAULY		HUB	CRACKED		10/1/96
		310		3AF32C87		D7015C87	BLADE SOCKET		EY2R9600136
	HUB CRACKED IN	BLADE SOCKET							
6114		CESSNA		MCAULY		HUB	CRACKED		5/1/96
		310		3AF32C87		D7015C87	NR 1 SOCKET		EY2R9600057
	HUB CRACKED IN NR1 SOCKET								
6114		CESSNA		MCAULY		HUB	CRACKED		12/1/96
		310J		D2AF34C81		D4887C81	THREAD AREA		EY2R9600168
	PROP HUB ASSY O	CRACKED IN THREAD A	AREA						
6114		CESSNA		MCAULY		HUB	CRACKED		5/1/96
		310J		D2AF34C81		D4887C81	PROP ASSY		EY2R9600064
	PROP ASSY HUB C	CRACKED							
6114		CESSNA		MCAULY		HUB	CRACKED		12/1/96
		310P		3AF32C87		D7027C87	THREAD AREA	1627	EY2R9600176
	HUB ASSY CRACK	ED THREADS							
6114		CESSNA		MCAULY		HUB	CRACKED		12/1/96
		310P		3AF32C87		D7027C87	THREAD AREA		EY2R9600177
	HUB ASSY THREA	D CRACKED							
6114		CESSNA		MCAULY		HUB	CRACKED	3348	7/1/96
		310Q		3AF32C87		D5892C87	PROP	573	EY2R9600097
	HUB CRACKED								

DOMEST	<u>IC SERVICE DIFF</u>	FICULTY REPORT	SUMMARY - PRO	OPELLERS (cont'd)		<u>12/7/97 T</u>	To 12/13/97	ISSUE: 97-50 ZAC-327	
ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO	
6114		CESSNA		MCAULY		HUB	CRACKED	3348	7/1/96	
		310Q		3AF32C87		D5892C87	PROP	573	EY2R9600096	
	HUB CRACKED									
6114		CESSNA		MCAULY		HUB	CRACKED		5/1/96	
		310Q		D3AF32C80		D7037C80	NR 1 SOCKET		EY2R9600065	
	HUB CRACKED IN	I NR 1 SOCKET								
6114		CESSNA		MCAULY		HUB	CRACKED		12/1/96	
		310Q		3AF32C87		D7015C87	PROP ASSY		EY2R9600190	
	PROP ASSY HUB C	CRACKED								
6114		CESSNA		MCAULY		HUB	CRACKED		10/1/96	
		310R		3AF32C87		D7015C87	THREAD AREA		EY2R9600138	
	HUB CRACKED IN	THREADS								
6114		CESSNA		MCAULY		HUB	CRACKED		10/1/96	
		310R		3AF32C87		D7015C87	NR 1 SOCKET		EY2R9600139	
	HUB CRACKED IN	NR1 SOCKET								
6114		CESSNA		MCAULY		HUB	CORRODED		1/1/96	
		310R		3AF32C87		D7015C87	PROP ASSY		EY2R9600229	
	PROP HUB ASSY O	CORRODED								
6114		CESSNA		MCAULY		HUB	CRACKED		9/1/96	
		310R		3AF32C87		D7027C87	THREAD AREA		EY2R9600108	
	HUB CRACKED IN THREAD AREA									
6110		CESSNA		MCAULY		CYLINDER PIN	CORRODED		1/1/96	
		340CESSNA		3AF32C*		C1896	PROP ASSY		EY2R9600244	
	PROP ASSY CYLIN	NDER PIN IS CORRODEI	O							
6114		CESSNA		HARTZL		HUB	CRACKED		9/1/96	
		340A		PHCC3YF2		32517	PROP		EY2R9600110	
	PROP HUB CRACK	ŒD								
6114		CESSNA		MCAULY		HUB	CRACKED		10/1/96	
		340A		3AF32C93		D7015C93	NR 3 SOCKET		EY2R9600141	
	HUB CRACKED IN	NR3 SOCKET								
6114		CESSNA		MCAULY		FEATHER CYLINDER	CRACKED		6/1/96	
		340CESSNA		3AF32C93		C3550	HUB		EY2R9600070	
	FEATHER CYLINE	DER SCREW HOLES CRA	ACKED							
6114		CESSNA		MCAULY		HUB	CRACKED		9/1/96	
		340CESSNA		3AF32C87		D7015C87	PROP ASSY		EY2R9600126	
	PROP HUB ASSY I	S CRACKED								

DOMESTIC SERVICE	DIFFICULTY REPORT SI	UMMARY - PROPELLERS (cont'd

DOMEST	IC SERVICE DIFF	FICULTY REPORT	SUMMARY - PRO	OPELLERS (cont'd	D)		<u>12/7/97 T</u>	o 12/13/97	ISSUE: 97-50 ZAC-327
ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
6114		CESSNA		MCAULY		HUB	CRACKED		7/1/96
		401		3AF32C87		D7015C87	THREAD AREA		EY2R9600095
	HUB CRACKED IN	THREAD AREA							
6114		CESSNA		MCAULY		HUB	CRACKED		7/1/96
		401		3AF32C87		D7015C87	NR 2 SOCKET		EY2R9600098
	HUB CRACKED IN	I NR 2 SOCKET							
6110		CESSNA		MCAULY		FEATHER CYLINDER	CORRODED		1/1/96
		402B		3AF32C87		C3550	PROP ASSY		EY2R9600228
	PROP ASSY FEATI	HER CYLINDER IS COR	RODED						
6110		CESSNA		MCAULY		NUT	CORRODED		1/1/96
		402B		3AF32C87		C3475	PROP ASSY		EY2R9600225
	PROP ASSY NUT I	S CORRODED							
6110		CESSNA		MCAULY		RETAIN BEARING	CORRODED		1/1/96
		402B		3AF32C87		C2987	PROP ASSY		EY2R9600224
	PROP ASSY RETA	IN BEARING IS CORRO	DED						
6110		CESSNA		MCAULY		RETAIN BEARING	CORRODED		1/1/96
		402B		3AF32C87		C2987	PROP ASSY		EY2R9600222
	PROP ASSY RETA	IN BEARING IS CORRO	DED						
6110		CESSNA		MCAULY		FEATHER CYLINDER	CORRODED		1/1/96
		402B		3AF32C87		A3550	PROP ASSY		EY2R9600218
	PROP ASSY FEATI	HER CYLINDER IS COR							
6114		CESSNA		MCAULY		HUB	CRACKED		10/1/96
		402A		3AF32C87		D5892C87	PROP ASSY		EY2R9600137
	PROP HUB ASSY C	CRACKED							
6114		CESSNA		MCAULY		HUB	CRACKED		11/1/96
		402B		3AF32C87		D5892C87	PROP ASSY		EY2R9600158
	PROP HUB ASSY C	CRACKED							
6114		CESSNA		MCAULY		HUB	CRACKED	4020	11/1/96
		402C		3AF32C93		D5892C93	PROP ASSY	1379	EY2R9600159
	PROP HUB ASSY C	CRACKED							
6111		CESSNA		MCAULY		BLADE	CRACKED		5/1/96
		414		3AF32C93		S82NC55	PROP ASSY		EY2R9600058
	BLADE SN K92082	YS CRACKED							
6111		CESSNA		MCAULY		BLADE	CORRODED		1/1/96
		414		3AF32C93		82NC55	PROP ASSY		EY2R9600245
	BLADE SN K76547	IS CORRODED							

MESTIC SERVICE DIFFICULTY REPORT SUMMARY - PROPELLERS (cont'o

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
6111	SERIAL IVO	CESSNA	ENG MDL	MCAULY	COM MDE	FERRULE	CRACKED	150	5/1/96
0111				3AF32C93		C4451	PROP ASSY		5/1/96 EY2R9600059
	PROP ASSY BLAD	414A E FERRULE CRACKED		3AF32C93		C4451	PROP ASS I		E12R9000059
6114	11101 11101 11101	CESSNA		MCAULY		HUB	CRACKED		10/1/96
0111		414		3AF32C93		D7015C93	BLADE SOCKET		EY2R9600140
	HUB CRACKED IN			3711 32073		B1013C)3	BEI IDE SOCIALI		E12R5000110
6114		CESSNA		MCAULY		HUB	CRACKED		12/1/96
		414		3AF32C93		D4344C93	NR 3 SOCKET		EY2R9600185
	HUB ASSY CRACK	KED IN NR3 SOCKET, NI	R3 THREAD						
6114		CESSNA		MCAULY		HUB	CRACKED		8/1/96
		414		3AF32C93		D7015C93	NR 1 SOCKET		EY2R9600103
	HUB CRACKED IN	NR1 SOCKET							
6114		CESSNA		MCAULY		HUB	CRACKED		10/1/96
		414		3AF32C93		D7015C93	NR 1 SOCKET		EY2R9600118
	NR 1 BLADE SOCK	KET UNDER WELCH PLU	JG CRACKED						
6114		CESSNA		MCAULY		HUB	CRACKED		5/1/96
		421		3AF34C92		D5894C92	RETAIN THREADS		EY2R9600061
	HUB CRACKED IN	RETENTION THREADS	S						
6114		CESSNA		MCAULY		HUB	CRACKED		5/1/96
		421		3AF34C92		D5894C92	RETAIN THREADS		EY2R9600060
	HUB CRACKED IN	RETENTION THREADS	S						
6114		CESSNA		MCAULY		HUB	CRACKED	1642	6/1/96
		421		3AF34C92		D7019C92	PROPELLER		EY2R9600071
	HUB ASSY CRACK	KED							
6111		CONAER		HARTZL		BLADE	CRACKED		10/1/96
		LA4200		HCC2YK1		FL7666A2	SHANK		EY2R9600152
	BLADE SN D66432	, CRACKED NEAR SHA	NK IN LIP						
6110		DHAV		HARTZL		PILOT TUBE	CRACKED		6/1/96
		DHC3		HCB3TN3		18912A	PROP		EY2R9600076
	PROP PILOT TUBE	HAS 3" CRACK							
6110		DHAV		HARTZL		PILOT TUBE	CRACKED		6/1/96
		DHC3		HCB3TN3		18916A	PROP		EY2R9600077
	PROP PILOT TUBE	CRACKED							
6111		DHAV		HARTZL		BLADE	CRACKED		6/1/96
		DHC3		HCB3TN3		T101731	SHANK		EY2R9600078

PROP BLADE SHANK SN 636978, IS CRACKED

DOMESI	IC SERVICE DIFI	FICULTY REPORT	SUMMARY - PRO	<u> JPELLERS (cont'd</u>			<u>12/1/97 · </u>	<u>Γο 12/13/97</u>	ISSUE: 97-50 ZAC-32
ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
6111		DHAV		HARTZL		CLAMP	CRACKED		6/1/96
		DHC3		HCB3TN3		13019S	PROP ASSY		EY2R9600074
	PROP ASSY BLAD	E CLAMP CRACKED							
6111		DHAV		HARTZL		BLADE	CRACKED	6770	6/1/96
		DHC6300		HCB3TN3		T10282H	PROP	896	EY2R9600081
	PROP BLADE CRA	CKED. REWORKED, SN	N C69640						
6111		DHAV		HARTZL		BLADE	CRACKED	6770	6/1/96
		DHC6300		HCB3TN3		T10282H	PROP	896	EY2R9600080
	BLADE CRACKED	. REWORKED, SN C697	41						
6111		DHAV		HARTZL		BLADE	CRACKED	6770	6/1/96
		DHC6300		HCB3TN3		T10282H	PROP	896	EY2R9600082
	PROP BLADE CRA	CKED. REWORKED, SN	N C55993						
6111		DHAV		HARTZL		BLADE	CRACKED	6770	6/1/96
		DHC6300		HCB3TN3		T10282H	PROP LE	896	EY2R9600079
	HARD ALLOY BLA	ADES CRACKED IN L.E.							
6110		GULSTM		HARTZL		STOP BRACKET	CRACKED		10/1/96
		690		HCB3TN5		30283	PROP HIGH STOP		EY2R9600123
	HIGH STOP BRAC	KET CRACKED. ALL 3	CRACKED AT PIN						
6110		GULSTM		HARTZL		STOP BRACKET	CRACKED		10/1/96
		690		HCB3TN5		30283	PROP HIGH STOP		EY2R9600124
	PROP HIGH STOP	BRACKETCRACKED. A	LL 3 CRACKED AT P	PIN					
6111		MAULE		HARTZL		BLADE	CRACKED		12/1/96
		M5200		HCE2YR1BF		F7666A	PROP ASSY		EY2R9600172
	BLADE SN H77743	IS CRACKED							
6114		MTSBSI		HARTZL		STOP	CRACKED	100	6/1/96
		MU2*		HCB4TN3		3493	HIGH PITCH		EY2R9600083
	HUB HIGH PITCH	STOP BROKEN							
6110		PIPER		HARTZL		SPLIT BEARING	CRACKED		9/1/96
		PA23150		HCC2YK2		2202	PROP ASSY		EY2R9600127
	PROP ASSY SPLIT	BEARING CRACKED							
6110		PIPER		HARTZL		SPLIT BEARING	CRACKED		10/1/96
		PA23250		HCE2YR2		2202	PROP ASSY		EY2R9600155
	PROP ASSY SPLIT	BEARING CRACKED							
6110		PIPER		HARTZL		SPLIT BEARING	CRACKED		4/1/96
		PA23250		HCE2YR2		2202	PROP ASSY		EY2R9600051

PROP ASSY HAS A CRACKED SPLIT BEARING

DOMEST	DOMESTIC SERVICE DIFFICULTY REPORT SUMMARY - PROPELLERS (cont'd)								12/7/97 To 12/13/97 ISSUE: 97-50 ZAC-327			
ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO			
6110		PIPER		HARTZL		PISTON ROD	CRACKED	4550	6/1/96			
		PA24400		HCC2YK1		24182	PROP		EY2R9600086			
	PROP PISTON ROL	PROP PISTON ROD CRACKED										
6114		PIPER		HARTZL		FORK	CRACKED		6/1/96			
		PA24400		HCC2YK1		24573	PITCH CHANGE		EY2R9600087			
	PROP PITCH CHANGE FORK CRACKED											
6111		PIPER		HARTZL		BLADE	CRACKED		6/1/96			
		PA28R200		HCC2YK1		F7666A2	PROP		EY2R9600088			
	BLADE SN H60744	, FLANGE CRACKED										
6111		PIPER		HARTZL		BLADE	CRACKED		9/1/96			
		PA31		HCE2YK2		FC84686R	PROP		EY2R9600113			
	BLADE SN E45280	CRACKED										
6114		PIPER		HARTZL		BLADE	CRACKED		9/1/96			
		PA31		HCE2YK2		FC84686R	PROP		EY2R9600112			
	BLADE SN D73964	CRACKED										
6114		PIPER		HARTZL		BLADE	CRACKED		9/1/96			
		PA31		HCE2YK2		FC84686R	PROP		EY2R9600111			
	BLADE SN D70235	CRACKED										
6110		PIPER		HARTZL		SPLIT BEARING	CRACKED		10/1/96			
		PA32R300		HCC2YK1		2202	PROP ASSY	3320	EY2R9600125			
	PROP SPLIT BEAR	ING CRACKED										
6111		PIPER		HARTZL		BLADE	CRACKED		6/1/96			
		PA32300		HCC2YK1		F8475D4	PROP	456	EY2R9600084			
	BLADE SN D11148	, FLANGES CRACKED										
6111		PIPER		HARTZL		BLADE	CRACKED		6/1/96			
		PA32300		HCC2YK1		F8475D4	PROP	456	EY2R9600085			
	BLADE SN D3698,	FLANGES CRACKED										
6111		PIPER		HARTZL		BLADE	CRACKED		8/1/96			
		PA34200		HCC2YK2		FJC7666A	PROP	157	EY2R9600105			
	BLADE SN H69746	, TIP BROKE OFF 12"										
6110		PIPER		HARTZL		SPLIT BEARING	CRACKED		10/1/96			
		PA44180T		HCC2YK2		2202	PROP ASSY		EY2R9600153			
	PROP ASSY SPLIT	BEARING CRACKED A	T TOP OF RACE									
6111		UNIVAR		MCAULY		BLADE	CORRODED		1/1/96			
		1082		2A36C29		90M8	PROP ASSY		EY2R9600201			
	BLADE ASSY SN F	K31785YS IS CORRODEI)									

<u>DOMESTIC</u>	<u>C SERVICE DIFFI</u>	<u>CULTY REPORT S</u>	<u>UMMARY - PROF</u>	PELLERS (cont'd)			<u>12/7/97 To 1</u>	.2/13/97 ISS	SUE: 97-50 ZAC-327
ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
6111		UNIVAR		MCAULY		BLADE	CORRODED		1/1/96
		1082		2A36C29		90M8	PROP ASSY		EY2R9600202
	BLADE ASSY SN C45	5338YS IS CORRODED							

HUB

C2343C29

CORRODED

PROP ASSY

MCAULY

2A36C29

(End of DOMESTIC SERVICE DIFFICULTY REPORT SUMMARY - PROPELLERS)

UNIVAR

1082

PROP ASSY HUB IS CORRODED

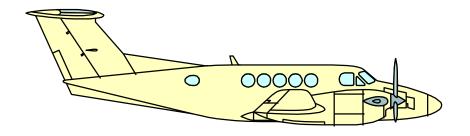
6114

1/1/96

EY2R9600203



INTERNATIONAL SERVICE DIFFICULTY REPORT



ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO	
3244		AMTR				TYRE	DEFLATED		2/25/97	
		JABIRUSK					LT MLG		AU970320	
	()	ANDING GEAR TYRE FI D FLIPPING OVER - THI					T WHEEL AND MOUNTI	ING BEFORE	DIGGING THE NOSE INTO	
3246		AMTRM	AMTR			WHEEL	SEPARATED		2/22/97	
		XP503	582				TAIL WHEEL		AU970319	
	()	L SEPARATED FROM A FOR INFORMATION ON		T RAN OFF STRIP - D	AMAGE TO RH WIN	G TIP , PITOT AND RH UNI	DERCARRIAGE LEG - TH	IIS DEFECT	WAS RECEIVED FROM	
2820		BBAVIA	LYC		CHAMP	CLAMP	WRONG TYPE		4/15/97	
		8GCBC	O360C2A			AN737TW74	FUEL HOSE		CA970505007	
	INTERCONNECT F		CLAMP FOUND IN U			ION REVEALED THAT THE ANUAL SHOWS AN AN7377				
2110		BEECH	PWA	HARTZL		HOSE	CONTAMINATED		3/5/97	
		200BEECH	PT6A42	HCB3TN3	11791005	24112	CABIN COMPRESSO	OR	AU970192	
	()					HOSES CONTAMINATED W ES ALSO CONTAMINATED		ES - SUSPEC	T DEBRIS FROM	
2612		BEECH	PWA	HARTZL		DETECTOR	FAULTY		3/5/97	
		200BEECH	PT6A41	HCB3TN3	303267	302158	FIRE DETECTION		AU970210	
	(AUS) RH ENGINE FIRE DETECTORS (30FF) FAULTY - DETECTOR AMPLIFIER ALSO REPLACED									
5610		BEECH	PWA	HARTZL		WINDSHIELD	CRACKED		3/5/97	
		200BEECH	PT6A41	HCB3TN3		10138402515	PILOTS		AU970216	
	(AUS) PILOTS WIN	DSHIELD CRACKED IN	SEVERAL PLACES	WINDSHIELD HEAT	WAS OPERATING A	T THE TIME				
5753		BEECH	PWA			FLAP	DAMAGED		2/26/97	
		B200C	PT6A42			35165050230	TE FLAP STRUCTU	R	AU970198	
	(AUS) LH OUTBOA	ARD WING FLAP DAMA	GED - SPAR BENT A	ND SKIN CREASED -I	NVESTIGATION FOU	UND A DEAD HARE ON TH	E RUNWAY			
5753		BEECH	CONT	MCAULY	BEECH	BRACKET	CRACKED		3/21/97	
		95C55	IO520C	3AF32C75	FLAP	501600036	TE FLAP STRUCTU	R	AU970317	
	()					E CENTRE ATTACHMENT KET ALSO CRACKED AND				
2721		BEECH	CONT			TRIM JACK	INCORRECT WIRE)	3/18/97	
		58	IO520C			96526000	RUD TAB CONTRO	L	AU970233	
						O THE TRIM JACK HOUSIN EL/MAINTENANCE ERROR		OWING THE	TRIM JACK TO ONLY	
5753		BEECH	CONT			RIB	CRACKED		3/19/97	
		58	IO520C			3515605084	TE FLAP STRUCT		AU970234	
	, ,	B CRACKED IN AREA C DUE TO INCORRECT RI		ATTACHMENT - CRA	CK EMANATES FRO	OM FORWARD ATTACHME	NT BOLT HOLE IN A PR	EVIOUSLY F	REPAIRED AREA -	

INTERNATIONAL SERVICE DIFFICULTY REPORT SUMMARY - AIRCRAFT (c	cont'd)
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12/7/97 To 12/13/97 ISSUE: 97-50 ZAC-327

5210 (AUS) LH DO 8120 (CAN) TIME HOURS OF I REPLACED 5310 (AUS) AIRCLENGINE NA ONE BACK VERTICAL S 5321 (AUS) FLOO 3222 (AUS) NOSE 3230 (AUS) MAIN 5511 (AUS) HORI PROBLEM OF THE PROBLEM OF	NO ACFT MAI		PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO	
(AUS) LH DO (AUS) LH DO 8120 (CAN) TIME HOURS OF I REPLACED 5310 (AUS) AIRC ENGINE NA ONE BACK VERTICAL S 5321 (AUS) FLOO 3222 (AUS) NOSE 3230 (AUS) MAIN 5511 (AUS) HORI PROBLEM O	ВЕЕСН			PRESTOLITE	COMMUTATOR	OPEN CIRCUIT		3/12/97	
(AUS) LH DO (AUS) LH DO (AUS) LH DO (CAN) TIME HOURS OF I REPLACED (AUS) AIRC: ENGINE NA ONE BACK: VERTICAL S (AUS) FLOO (AUS) NOSE (AUS) NOSE (AUS) MAIN (AUS) HORI PROBLEM O (AUS) STAB	76			HYH5001	AFTS1001	LANDING GEAR ACT	Γ	AU970222	
(AUS) LH DO (CAN) TIME HOURS OF I REPLACED 5310 (AUS) AIRC: ENGINE NA ONE BACK: VERTICAL S 5321 (AUS) FLOO 3222 (AUS) NOSE 3230 (AUS) MAIN 55511 (AUS) HORI PROBLEM O	DING GEAR MOTOR CO	OMMUTATOR SEGMENT OF	PEN CIRCUIT DUE TO	LOOSE CRIMP ON T	THE WINDING				
(CAN) TIME HOURS OF I REPLACED 3310 (AUS) AIRC: ENGINE NA ONE BACK VERTICAL S 3321 (AUS) FLOO 3222 (AUS) NOSE 3230 (AUS) MAIN 5511 (AUS) HORI PROBLEM C 5551 (AUS) STAB	BEECH				LATCH	STICKING		1/24/97	
(CAN) TIME HOURS OF I REPLACED (AUS) AIRCE ENGINE NA ONE BACK VERTICAL S (AUS) FLOO (AUS) NOSE (AUS) MAIN (AUS) HORI PROBLEM C (AUS) STAB	76				10542001815	PASS/CREW DOOR		AU970299	
(CAN) TIME HOURS OF I REPLACED (AUS) AIRC: ENGINE NA ONE BACK: VERTICAL: (AUS) FLOO (AUS) NOSE (AUS) MAIN (AUS) HORI PROBLEM O	OOR LATCH STICKING	- SUSPECT CAUSED BY LA	CK OF LUBRICATION	N					
HOURS OF I REPLACED (AUS) AIRC: ENGINE NA ONE BACK VERTICAL S (AUS) FLOO (AUS) NOSE (AUS) MAIN (AUS) HORI PROBLEM C (AUS) STAB	BEECH	PWA		GODFREY	SUPERCHARGER	OIL LEAK		9/24/97	
HOURS OF I REPLACED 310 (AUS) AIRC: ENGINE NA ONE BACK VERTICAL S 321 (AUS) FLOO 222 (AUS) NOSE 230 (AUS) MAIN 511 (AUS) HORI PROBLEM C 551 (AUS) STAB	65A90	PT6A20			126106	RETURN LINE	3	CA970930005	
(AUS) AIRCE ENGINE NA ONE BACK VERTICAL STATE (AUS) FLOOR (AUS) NOSE (AUS) MAIN (AUS) HORI PROBLEM CONTROL (AUS) STAB	(CAN) TIME EXPIRED SUPERCHARGER WAS REPLACED WITH AN OVERHAULED UNIT AND THERE WAS NO INDICATION OF OIL LEAKS ON THE ENGINE GROUND TEST RUN UP. AFTER 3.3 HOURS OF FLIGHT TIME, THE FLIGHT CREW FOUND OIL INDICATOR FLOAT LEVEL LOW ON THE NEXT PRE-FLIGHT INSPECTION. THE ENGINE GEARBOX AND SUPERCHARGER WERE REPLACED WITH OVERHAULED UNITS								
ENGINE NA ONE BACK VERTICAL S 321 (AUS) FLOO 222 (AUS) NOSE 230 (AUS) MAIN 511 (AUS) HORI PROBLEM C 551 (AUS) STAB	BNORM	LYC	HARTZL		STRUCTURE	CORRODED		3/21/97	
ENGINE NA ONE BACK VERTICAL S 321 (AUS) FLOO 2222 (AUS) NOSE 230 (AUS) MAIN 511 (AUS) HORI PROBLEM C 551 (AUS) STAB	BN2A21	IO540K1B5	HCC2YK2			AIRCRAFT GENERAL	L	AU970279	
(AUS) FLOO (AUS) NOSE (230) (AUS) MAIN (5511) (AUS) HORI PROBLEM C	FROM THE FRONT SPA STABILISER EXTENSIV	AR IN AN AREA JUST OUTE /E SURFACE CORROSION5.	SOARD OF THE FUEL ELEVATOR BALANC	BAY AT APPROXIM	ATELY STN 200 3. HORIZO CORRODED IN STEEL SE	NTAL STABILISER EXTE CTIONS		FACE CORROSION4.	
(AUS) NOSE (AUS) MAIN (AUS) HORI PROBLEM C (AUS) STAB	CESSNA		MCAULY		FLOOR	CRACKED		3/7/97	
(AUS) NOSE (AUS) MAIN (AUS) HORI PROBLEM C (AUS) STAB	A152		1A103TCM		04102381	FUSELAGE FLOOR	9182	AU970246	
(AUS) NOSE (AUS) MAIN (AUS) HORI PROBLEM C (AUS) STAB	OR CRACKED IN AREA	OF SEAT RAIL ATTACHME	NT AT REAR - SEAT F	RAIL HAS A RIGHT A	ANGLE END WHICH CUTS	INTO FLOOR			
(AUS) MAIN (AUS) HORI PROBLEM ((AUS) STAB	CESSNA				FORK	BROKEN		3/10/97	
(AUS) MAIN (AUS) HORI PROBLEM ((AUS) STAB	172N				SK1759	NOSE GEAR		AU970288	
(AUS) MAIN 511 (AUS) HORI PROBLEM C 551 (AUS) STAB	E LANDING GEAR FORI	K SHEARED IN AREA OF PI	STON TUBE ATTACH	MENT- A HEAVY LA	ANDING INSPECTION HAD	BEEN CARRIED OUT 40 H	HOURSPRE	/IOUSLY	
(AUS) HORI PROBLEM C 551 (AUS) STAB	CESSNA	LYC	MCAULY		PIVOT	CRACKED		1/24/97	
(AUS) HORI PROBLEM C 551 (AUS) STAB	172RG	O360F1A6	B2D34C220		24411001	LANDING GEAR		AU970188	
(AUS) HORI PROBLEM C 551 (AUS) STAB	N LANDING GEAR PIVO	OT ASSEMBLY CRACKED A	S INDICATED IN SEB	90-1 REV2					
PROBLEM C 551 (AUS) STAB	CESSNA	CONT	MCAULY		SPAR	CRACKED		3/5/97	
PROBLEM C	172G	O300C	1C172EM		0532001	HORIZONTAL STAB	I	AU970218	
(AUS) STAB		FORWARD SPAR CRACKED INCORRECT GROUND HAN		ENING HOLE AS IND	ICATED IN SEB 94-8 - CRA	CK LENGTH APPROXIMA	TELY 10MN	M (0.393IN) - SUSPECT	
	CESSNA	LYC	MCAULY		ARM	CRACKED		3/18/97	
	177RG	IO360A1B6	B2D34C207	17320312	17320311	HORIZ STAB WT		AU970230	
240	BILATOR WEIGHT ARM	I LH AND RH REAR MOUNT	TING BRACKETS PNO	1732031-1 AND PNO	1732031-2 CRACKED ALO	NG VERTICAL BENDS			
	CESSNA		MCAULY		PIPE	DAMAGED		4/4/97	
	182Q		2A34C203		0500118126	MLG BRAKE		AU970315	
(AUS) LH BI	RAKE LINE PUNCTURE	ED BY `PK' TYPE SCREW FIT	TTED FOLLOWING RE	EPAINTING - LOSS O	F BRAKE FLUID - PERSON	NEL/MAINTENANCE ERR	ROR		
5312	CESSNA	CONT	MCAULY	CESSNA	BULKHEAD	CORRODED		3/7/97	
	182D	O470R	2A34C66	182D	05B0069	FUSELAGE		AU970264	

INTERNATIONAL	SERVICE DIFFICIT	LTY REPORT SUMMARY	- AIRCRAFT (cont'd)

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ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
5312		CESSNA	CONT	MCAULY		BULKHEAD	CRACKED		3/7/97
	18253162	182D	O470R	2A34C66		07193005	FUSELAGE LT AFT 5	5563	AU970251
	(AUS) FUSELAGE I	LH BULKHEAD CRACK	ED						
5312		CESSNA	CONT	MCAULY		BULKHEAD	CORRODED		3/7/97
	18253162	182D	O470R	2A34C66		18253162	FUSELAGE BULKHD		AU970260
	(AUS) REAR FUSE	LAGE BULKHEAD COR	RODED IN AREA OF	DORSAL FIN ATTAC	HMENT- SEE MDR 9	7/0252 FOR ADDITIONAL I	INFORMATION		
5313		CESSNA	CONT	MCAULY		STRINGER	CORRODED		3/7/97
	18253162	182D	O470R	2A34C66		18253162	FUSELAGE		AU970261
	(AUS) FUSELAGE	STRINGERS CORRODE	D - SEE MDR 97/0252	FOR ADDITIONAL IN	FORMATION				
5330		CESSNA	CONT	MCAULY		SKIN	CORRODED		3/7/97
	18253162	182D	O470R	2A34C66		18253162	FUSELAGE MAIN PL		AU970259
	,	SKINS CORRODED IN A ADDITIONAL INFORM		OINTS IN BOTTOMS (OF BOTH CABIN ENT	TRY DOORS AND DOOR H	INGE ATTACHMENT AREA	S, CABIN	ROOF CORRODED - SEE
5520		CESSNA	CONT	MCAULY		ELEVATOR	CORRODED		3/7/97
	18253162	182D	O470R	2A34C66		18253162	ELEVATOR STRUCT		AU970262
	(AUS) LH AND RH	ELEVATORS CORROD	ED - SEE MDR 97/025	2 FOR ADDITIONAL I	INFORMATION				
5540		CESSNA	CONT	MCAULY		RUDDER	CORRODED		3/7/97
		182D	O470R	2A34C66		18253162	RUDDER STRUCTURI		AU970263
	(AUS) RUDDER CO	ORRODED - SEE MDR 9	7/0252 FOR ADDITIO	NAL INFORMATION					
5711		CESSNA	CONT	MCAULY		SPAR	CORRODED		3/7/97
	18253162	182D	O470R	2A34C66		18253162	WING SPAR STRUCT		AU970252
	(AUS) LH WING FF	RONT MAIN SPAR COR	RODED - SEE MDR 9	7/0255 TO MDR 97/026	5 FOR ADDITIONAL	DEFECTS REPORTED UN	DER THE SAME MDR NUM	BER	
5711		CESSNA	CONT	MCAULY		SPAR	CRACKED		3/7/97
	18253162	182D	O470L	2A34C66		052340053	WING SPAR STRUCT 5	5562	AU970249
	(AUS) WING REAR	SPAR CRACKED IN RA	ADIUS OF WING ATT	ACHMENT WEB					
5711		CESSNA	CONT	MCAULY		SPAR	CORRODED		3/7/97
	18253162	182D	O470R	2A34C66		121002926	WING SPAR STRUCT		AU970265
	(AUS) CENTRE SE	CTION REAR CARRY T	HROUGH SPAR COR	RODED - SEE MDR 97	/0252 FOR ADDITION	NAL INFORMATION			
5712		CESSNA	CONT	MCAULY		RIB	CORRODED		3/7/97
	18253162	182D	O470R	2A34C66		18253162	WING RIB STRUCTU		AU970255
	(AUS) LH AND RH	WINGS CORRODED IN	AREA BETWEEN RI	BS AND SKIN - SEE M	IDR97/0252 FOR ADD	DITIONAL INFORMATION			
5730		CESSNA	CONT	MCAULY		SKIN	CORRODED		3/7/97
	18253162	182D	O470R	2A34C66		18253162	WING PLATES		AU970256
	(AUS) LH AND RH INFORMATION	WING TOP AND BOTTO	OM SKINS CORRODE	ED - WING INSPECTIO	ON PANELS ALSO CO	DRRODED - SOME RIVETS	MISSING - SEE MDR 97/025	2 FORAD	DITIONAL
5751		CESSNA	CONT	MCAULY		AILERON	CORRODED		3/7/97
	18253162	182D	O470R	2A34C66		18253162	AILERON STRUCTUR		AU970258
	(AUS) LH AND RH	AILERONS CORRODEI	O - SEE MDR 97/0252	FOR ADDITIONALINE	FORMATION				

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5753		CESSNA	CONT	MCAULY	CESSNA	FLAP	CORRODED		3/7/97
		182D	O470R	2A34C66	182D	18253162	TE FLAP STRUCTUF	}	AU970257
	(AUS) LH AND RH	WING FLAPS CORROD	ED - SEE MDR 97/0252	2 FOR ADDITIONALI	NFORMATION				
2410		CESSNA	CONT	MCAULY	ELECTROSY	ALTERNATOR	LOOSE NUT		9/30/97
		U206F	IO520F	D3A34C401		DOFF10300JR	PULLEY	12	CA971014001
	WORKED OFF THE		BREAKING THE BEL			ROBLEM. APPROXIMATELY HE ALTERNATOR AS AN O			
2822		CESSNA				FUEL PUMP	RUSTED		5/3/97
		U206G				477003	LEFT AUXILIARY		CA971027011
	'					/N FACKV-4-100-6 FUND CL YSTEM. STC SA4368WE.	OGGED. THIS AIRCRA	FT HAS FLIN	T STC SYSTEM STEEL
2822		CESSNA				FUEL PUMP	RUSTED		3/12/97
		U206G				477003	LEFT AUXILIARY		CA971027013
	(- ')	LIARY FUEL PUMP FOU SES THE RUSTING AND				SYSTEM AS PER STC SA436 ATION IS NOW C-FJST	8WE WHICH CONTAIN	S STEEL PAR	TS AND ACCORDING TO
2842		CESSNA				FUEL TRANSDUCER	RUSTED		7/17/97
		U206G				FA2091	LEFT HAND		CA971027012
	'	UEL TRANSDUCER FO PARTS AND ACCORDI				RAFT HAS THE FLINT AUX CLOG FUEL SYSTEM.	IILIARY SYSTEM STC S	A4366WE IN	STALLED WHICH
2822		CESSNA	CONT			FUEL PUMP	RUSTED		7/17/97
		T210L	TSIO520H			480532	RIGHT AUXILIARY		CA971027010
	'	ILIARY FUEL PUMP FO Y SYSTEM STC SA2862V				`NO. FACKV-5-100-6 FOUNI	O CLOGGED. THIS AS A	RESULT OF	INSTALLATION OF
2910		CESSNA	CONT	MCAULY		HOSE	FAILED		2/11/97
		210N	IO520F	D3A34C404		S2178C40150	HYDRAULIC, MAIN		AU970312
	(AUS) LANDING G	EAR HYDRAULIC HOS	E FAILED AT FITTING	G - SUSPECT INCORR	ECT HOSE FITTED -	UNAPPROVED PART - PERS	SONNEL/MAINTENANC	E ERROR	
3222		CESSNA	CONT	MCAULY		TORQUE LINK	CRACKED		3/20/97
		210N	IO520L	D3A32C88		12434262	NOSE GEAR		AU970297
	(AUS) NOSE LAND	ING GEAR TORQUE LI	NK CRACKED ON FO	RWARD REINFORCIN	NG WEBS				
3260		CESSNA	CONT	MCAULY		WIRE	BROKEN		3/18/97
		310R	IO520M	3AF32C87			LANDING GEAR PO	S	AU970232
-	(AUS) RH MAIN LA	ANDING GEAR MICROS	WITCH EARTH WIRE	BROKEN					
5712		CESSNA		MCAULY		RIB	CRACKED		1/20/97
		402B		3AF32C87	082217518	082217517	LT WHEEL BAY		AU970306
	(AUS) LH WHEEL I	BAY CENTRE RIB UPPE	R CAP CRACKED IN	AREA ACROSS ALLT	HREE UPPER BRACE	KET BOLT HOLES			
2510		CESSNA		MCAULY		SEAT	CRACKED	<u> </u>	3/5/97
		404CESSNA		3FF32C501		081278211	COPILOT		AU970215
	(AUS) COPILOTS S	EAT BASE AUXILIARY	SUPPORT STRUCTUI	RE CRACKED IN TWO	O AREAS				

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5500		CESSNA		HARTZL		EMPENNAGE	LIGHTNING STRIKE		2/19/97	
		441		HCB3TN5			EMPENNAGE STRUCT		AU970291	
	()	LIGHTENING STRIKE - T HOLE AND EVIDENC				H ELEVATORS HAD EXIT I RCING	HOLES ADJACENT TO OU	TER STAT	IC WICKS - RUDDER TOP	
6120		CESSNA		HARTZL	GARRTT	VALVE	STICKING		3/11/97	
		441		HCB3TN5	TPE3318	7715649001	PROP CONTROL		AU970292	
	(AUS) NTS CHECK	VALVE ON GEARCAS	E STICKING ALLOW	NG HIGH PRESSURE	GOVERNOR OIL TO	ACTIVATE BETA SWITCH				
2820		DHAV	PWA			END FITTING	FAILED		8/27/97	
		DHC3	R1340AN2		MS2874110020		FUEL SYS		CA970922028	
	(CAN) DURING CR	RUISE THE PILOT COM	PLAINED OF THE SM	ELL OF FUEL. FUEL F	FOUND LEAKING FR	OM BEHIND THE COWL W	TH ELECTRIC FUEL PUM	IP ON.		
3250		DHAV	PWA		HEROUX	STUD	SHEARED		6/27/97	
		DHC6300	PT6A27		7110031	712761	NLG STEERING	215	CA970922018	
	SECURES IT TO ST	(CAN) AFTER LANDING PILOT NOTICED A LOSS OF STEERING CONTROL WITH TILLER. INVESTIGATION DETERMINED THAT THE STEERING STUD HAD SHEARED WHERE ROLL PIN SECURES IT TO STEERING COLLAR. FURTHER INVESTIGATION DETERMINED THAT THE STUD ASSEMBLY SHEARED WHERE THE THREAD FINISHES AT THE LOWER END DUE TO EXCESS CLEARANCE IN THE SLEEVE BORE WHICH SUBJECTED THE STUD TO AN ALTERNATING SHEAR LOAD.								
2750		EMB	PWA	HARTZL		SELECTOR SWITCH	BROKEN		3/4/97	
		EMB110P1	PT6A34	HCB3TN3		110P28311298	TE FLAP CONTROL		AU970268	
	` /	CH DOWN THE COPILO TINUAL SLIDING CON			P SELECTOR LEVER	- INVESTIGATION LATER	FOUND THE LEVER EXCI	ESSIVELY	WORN AND WEAKENED	
3211		GROB	LYC	HARTZL		BRACKET	CRACKED		4/1/97	
		G115C	O360A1F6	HCF2YR1		115C5031	LT MLG ATTACH		AU970294	
	(AUS) LH MAIN LA	ANDING GEAR ATTACI	HMENT BRACKET CF	RACKED AT FORWAR	RD LOWER SECTION					
7120		GULSTM	LYC	HARTZL	GULSTM	MOUNT	BROKEN		3/24/97	
		114	IO540T4B5	HCC2YR1	114	6250001	ENGINE MOUNT SEC		AU970314	
	(AUS) ENGINE MO	OUNT ASSEMBLY TUBE	CRACKED AT LH N	LG TRUNNION - TRU	NNION PIN DEFORM	ED - AIRCRAFT USED FOR	PILOT TRAINING			
2810		GULSTM	LYC	HARTZL		FUEL CELL	LEAKING		3/17/97	
		500S	IO540E1B5	HCA3VK2		5630061502	FUEL STORAGE		AU970267	
	` '	UEL CELL LEAKING - C IN NOVEMBER 1978 A				THE INTERNAL AND EXTE	ERNAL COATING OF TAN	IK WAS EV	TIDENT - THE CELL WAS	
7921		PIPER	LYC	SNSNCH		O-RING	DETERIORATED		2/10/97	
		PA18150	O320A2B	M74DM			ENG OIL COOLER		AU970242	
	(AUS) ENGINE OIL	COOLER TO PRESSUR	E LINE `O'- RING SEA	AL DETERIORATED A	AND LEAKING					
2752		PIPER		HARTZL		ACTUATOR	WORN		3/19/97	
		PA31350		HCE3YR2		489426	TE FLAP ACTUATOR		AU970307	
	(AUS) FLAP ACTU	ATOR WORN BEYOND	LIMITS							
2822		PIPER		HARTZL	WELDON	PUMP	FAILED		3/18/97	
		PA31350		HCE3YR2	421136	421136	FUEL BOOST PUMP	1507	AU970243	
	,	T PUMP FAULTY - INV ADE SUPPORT BLOCK				WAY - A COUPLING SPLIN BRUSH	E BETWEEN THE MOTOR	AND THE	PUMP WAS BADLY	

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2700		PIPER		HARTZL		CABLE	BROKEN		2/5/97	
		PA34200T		BHCC2YF2			FLIGHT CONTROLS		AU970239	
	(AUS) UNKNOWN	CABLE BROKEN - LIMI	TED INFORMATION	PROVIDED						
5312		PIPER	LYC	HARTZL		BULKHEAD	CORRODED		3/17/97	
		PA34200	IO360C1E6	HCC2YK2		VARIOUS	FUSELAGE MAIN BU	J	AU970254	
5751	TO LACK OF CORE	ROSION PROTECTION I PIPER PA44180	DURING MANUFACT LYC O360E1A6	URE	8639804	RIB 8639604	CRACKED AILERON STRUCTU	R	3/13/97 AU970221	
	(AUS) AILERON NO	OSE RIBS PNO 86396-04	AND PNO 86398-04 C	CRACKED ATATTACI	HMENT BRACKETS					
5712		SOCATA	LYC	HARTZL		RIB	CORRODED		4/1/97	
		TB10TOBAGO	O360A1A	HCC2YK1		TB101106100	RT WING		AU970298	
	(AUS) RH WING RO NOT HANGARED	OOT RIB LOWER FLAN	GE CORRODED IN AI	REA OF RIB TO LOWI	ER WING SKIN ATTA	CHMENT RIVETS - AIRCRA	AFT OPERATES IN A SA	LT LADEN	ENVIRONMENT A	ND IS
5751		SOCATA	LYC	HARTZL	SOCATA	BALANCE WEIGHT	LOOSE		4/1/97	
		TB10TOBAGO	O360A1A	HCC2YK1	AILERON		AILERON		AU970293	
	(AUS) LH AILERON	N BALANCE WEIGHT L	OOSE - `POP' RIVETS	MOVING						
2700		UNIVAR		MCAULY		CABLE	FAULTY		3/4/97	

415D 1B90CM 41552172S FLIGHT CONTROL AU970285

(AUS) CONTROL CABLES ATTACHED TO PRIMARY CONTROL QUADRANT IN CONTROL COLUMN YOKE HAD FAULTY SWAGING - DURING TESTING CABLES PULLED THROUGH THE NICOPRESS SLEEVES AT A LOAD OF 610 LBS (NORMAL FAILURE LOAD 2200 LBS TO 2300LBS) - AIRCRAFT IS IMPORTED FROM THE USA AND IS UNDERGOING INITIAL COFA - US REGISTRATION N94022

(End of INTERNATIONAL SERVICE DIFFICULTY REPORT SUMMARY - AIRCRAFT)

<u>INTERNATIONAL SERVICE DIFFICULTY REPORT SUMMARY - HELICOPTERS</u>

12/7/97 - 12/13/97 ISSUE: 97-50 ZAC-327

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5320		BELL	ALLSN			STRUCTURE	CRACKED		3/24/97
		206L1	250C28B				FUSELAGE		AU970300
	(AUS) FUSELAGE AD/BELL206/82	STRUCTURE CRACKED	WHERE VERTICAL	CONTROL TUNNEL I	JOINS ROOF STRUC	TURE IN AREA BELOW SE	RVO MOUNTING - FOU	ND DURING I	NSPECTION IAW
2435		BELL	PWA			MOUNT	WORN		9/15/97
		212	PT6T3			230461763	START/GEN		CA970922009
6720	THE STARTER GE	NERATOR SKRSKY	ALLSN			SUPPORT	CRACKED		3/14/97
6720		SKRSKY	ALLSN			SUPPORT	CRACKED		3/14/97
		S76A	250C30			7640301111041	T/R CONTROL		AU970229
	(AUS) TAIL ROTO	R CONTROL PEDAL CE	NTRE SUPPORT CRA	CKED AT THE UPPER	R SUPPORT TUBE W	FI DED IOINT			AU / 1022/
						ELDED JOHAI			A0)1022)
7261		SKRSKY	TMECA		TMECA	OIL SYSTEM	CONTAMINATED		3/14/97
7261		SKRSKY S76C	TMECA ARRIEL1S		TMECA 0292005250		CONTAMINATED TURBINE ENG OIL		
7261	(AUS) NO2 ENGIN		ARRIEL1S	D FILTER CONTAMIN	0292005250	OIL SYSTEM 15514			3/14/97
7261	(AUS) NO2 ENGIN	S76C	ARRIEL1S	D FILTER CONTAMIN	0292005250	OIL SYSTEM 15514			3/14/97
	(AUS) NO2 ENGIN	S76C E CHIP DETECTORS, M.	ARRIEL1S AGNETIC PLUGS AN	D FILTER CONTAMIN	0292005250 NATED WITH META	OIL SYSTEM 15514 L PARTICLES	TURBINE ENG OIL		3/14/97 AU970287

 $\underline{(\mathsf{End}\ of\ \mathsf{INTERNATIONAL}\ \mathsf{SERVICE}\ \mathsf{DIFFICULTY}\ \mathsf{REPORT}\ \mathsf{SUMMARY}\ \mathsf{-}\ \mathsf{HELICOPTERS})}$

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8530		BBAVIA	LYC			CYLINDER	FAILED	1	8/22/97
		7ECA	O235C1			OSK21232	INT VALVE SEAT		CA970923001
		NEW CYLINDER INSTA NDER INTAKE VALVE				ID PARKED. NEXT MORNIN	NG ON START UP THE I	ENGINE RAN	ROUGH. INVESTIGATION
7210		BEECH	PWA			PLANETARY GEAR	SEPARATED		6/29/97
		200BEECH	PT6A41			310152501	REDUCTION GEAR	BX2370	CA970916003
****	FOUND METAL IN SOURCE OF THE M DISCOLORATION	THE OIL FILTER. THE METAL PARTICLES ON	ENGINE WAS SENT I THE CHIP DETECTO OTHER COMPONEN	FOR INVESTIGATION R WAS A PIECE OF M TS INDICATING LACI	AND DISASSEMBLE ETAL MISSING FRO K OF LUBRICATION	. CLOSER INSPECTION OF	ARBOX ASCERTAINED H ON ONE OF THE 1ST	THE MAIN I	DAMAGE AND PROBABLE NET GEARS. THIS WAS NO
8530		BEECH	CONT	MCAULY	CONT	VALVE	FAULTY		2/21/97
		A36	IO520B	3A32C76	IO520BB	652956	NR 3 & 4 EXH	3	AU970295
	(AUS) NO4 CYLIN SYSTEM	DER EXHAUST VALVE	FAULTY - FURTHER	INVESTIGATION FO	UND NO3 CYLINDE	R EXHAUST VALVE IN SIM	ILAR CONDITION - ME	TAL CONTA	MINATION OF OIL
7250		BEECH	PWA		PWA	BOLT	WRONG PART	566	9/18/97
		65A90	PT6A20		3020259	MS956508	CT SHROUD ASSY		CA970922020
****		SPECTION BOLTS ON T TALLATION WERE THI		URBINE SHROUD ASS	SEMBLY HOUSING	WERE FOUND DEFORMED	WITH MATERIAL LOSS	S. INVESTIGA	ATION FOUND THE BOLTS
8520		BEECH	CONT			CAMSHAFT	WORN		9/26/97
		95B55	IO470L			649478	CAMLOBE NR 5 EX	XH 817	CA971015058
	(- ')	NGINE OIL PAN WAS RI Y WORN. THE ENGINE				PECTION OF THE NOW EXP CE.	OSED AREA FOUND TI	HE NR5 CYLI	NDER EXHAUST VALVE
8530		CESSNA	CONT	MCAULY		CYLINDER	CRACKED		10/1/97
		150L	O200A	1A102OCM		641917	CYLINDER BARRE	L 1009	CA971007010
	(CAN) AFTER NOT OF THE CYLINDE		COMING FROM BET	TWEEN THE HEAD AN	ND THE BARREL, TH	IE CYLINDER WAS REMOV	/ED AND A CRACK WA	S FOUND ON	NE INCH FROM THE TOP
7310		CESSNA	CONT	MCAULY		FUEL INJECT LINE	BROKEN		9/24/97
		R172K	IO360K	2A34C203		630662	NR 6 INJECTOR	104	CA970930002
						LSO THE SMELL OF FUEL. HE THROTTLE CONTROL (THE NR6 FUEL INJECTOR JEL INJECTOR LINE.
7322		CESSNA	CONT			CARBURETOR	FAILED		9/27/97
		172D	O300C			104439	ENGINE	1153	CA971010008
	(-)					ENCY LANDING WAS CARF HE ENGINE WAS GROUND		T INSPECTIO	N FOUND FUEL POURING
7414		CESSNA	LYC	MCAULY		MAGNETO	FAILED		2/8/97
		172M	O320E2D	1C160DTM		4251R	MAGNETO/DISTRI	BU	AU970214
		FAILED - INSPECTION I							

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
8530		CESSNA	LYC	MCAULY		CYLINDER	CRACKED		3/11/97
		172P	O320D2J	1C160DTM		12416	NR 1 CYL PLUG	1343	AU970278
	(AUS) NO1 CYLIN	DER CRACKED FROM I	BOTH SPARK PLUG I	HOLES - CRACK LENG	THS 19.05MM (0.75I	N) - EXHAUST VALVE SEA	T BORE CRACKED - C	RACK LENGT	TH 12.7MM (0.5IN)
7313		CESSNA	CONT	MCAULY		INJECTOR	BLOCKED		2/28/97
		210N	IO520L	D3A34C404		627335D13B	NR 2 CYL FUEL	756	AU970247
	(AUS) NO2 CYLIN	DER FUEL INJECTOR N	OZZLE BLOCKED						
3520		CESSNA	CONT	MCAULY		CRANKCASE	CRACKED		2/25/97
		210L	IO520L	E2A34C73		294762R	NR 4 & 5 MAIN		AU970296
	(AUS) ENGINE BU	LK STRIPPED FOLLOW	ING PROPELLER ST	RIKE - CRANKCASE FO	OUND TO BE CRAC	KED BETWEEN NO4 AND I	NO5 MAIN BEARING SA	ADDLES - FOU	JND USING FPI
520		CESSNA	CONT	MCAULY		CRANKCASE	DEFECTIVE		3/17/97
		210N	IO520L	D3A34C404		280127R	RECIP ENG		AU970277
	(AUS) AT ENGINE	OVERHAUL THE CRAN	NKCASE WAS BOLTE	ED TOGETHER AND T	UNNELS WERE MEA	ASURED OUT OF LIMITS			
3530		CESSNA	CONT	MCAULY		CYLINDER	STRIPPED		3/16/97
		210M	IO520L	D3A34C404		653446	FUEL NOZZLE	545	AU970231
	'	LINDER HEAD FUEL N N/60 CARRIED OUT 50 I			FUEL NOZZLE LOO	SE - CYLINDER IS 0.0015IN	PLUS OVERSIZE WIT	H UNKNOWN	TOTAL TIME IN
530		CESSNA	CONT	MCAULY		CYLINDER	WORN		3/21/97
		310N	IO470V	D3AF32C80		649168CEA3	RECIP ENG BORE	E	AU970274
	(AUS) ENGINE CY	LINDER (PNO 649168CI	EA3) BORES WORN E	BEYOND LIMITS - CYL	LINDERS ARE CERM	IICHROME TYPE			
3520		CESSNA	CONT	MCAULY		CRANKCASE	CRACKED		3/21/97
		404CESSNA	GTSIO520M	3FF32C501		276347R	NR 2 CYL PAD		AU970271
	'	OVERHAUL THE FOLL CRACKED - CRACK LE				ANKCASE WAS FPI AND V SPLINES	VAS FOUND CRACKEI	O INSIDE NO2	CYLINDER PAD2.
3520		CESSNA	CONT	MCAULY		CAMSHAFT	SPALLED	197	10/3/97
		414A	TSIO520NB	3AF32C93		653058	ENGINE		CA971015060
	'					ATION AND REPAIR. DISA ENGINE WAS CLEANED, I			
314		CESSNA	CONT	MCAULY		PUMP	FAULTY		3/5/97
		421C	GTSIO520L	3FF32C501		2B729	ENGINE FUEL PU	MP 5	AU970211
	(AUS) ENGINE FU	EL PUMP FAULTY - SU	SPECT INTERNAL ST	ICKING IN SOLENOID	- PUMP HAD COM	PLETED 4.8 HOURS TIME S	INCE OVERHAUL		
322		DHAV	PWA		STROMBER	CARBURETOR	FAILED		9/13/97
		DHC2MK1	R985AN14B			NAR9B	FLOATNEEDLE SI	EAT	CA970926001
	ENGINE OPERATION UNSCREWED ANI	ON RETURNED TO NOT	RMAL. FAULTY CAR FROM SEAT BOSS IN	BURETOR DISASSEM BOWL CASTING. TH	BLED AND FLOAT A	ALED CARBURETOR PRO AND NEEDLE ASSEMBLY V CKING DEVICE DID NOT I	WAS FOUND JAMMED	AND NEEDLE	E SEAT WAS FOUND
7414		DHAV	PWA			SPRING BOSS	CORRODED		9/6/97
		DHC2MK1	R985AN14B				SPRING AND CAP		CA970916006
	(CAN) INTERMITI RIVET.	TENT HOT OR LIVE MA	GNETO CAUSED FRO	OM CORROSION BETV	VEEN BERYLLIUM	COIL SPRING AND BRASS	KNURLED CAP. CLEA	NED WITH NI	TRIC ACID AND RESET

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
322		DHAVXX	DHAVXX			CARBURETTOR	CONTAMINATED		1/13/97
		DH82AROBRT	GIPSYMAJOR				FUEL CONTL/CARB	}	AU970240
	(AUS) CARBURET	TOR BANJO FITTING C	ONTAMINATED WIT	H WATER AND SEDIM	MENT -AIRCRAFT C	RASHED ON TAKEOFF			
414		DHAVXX	DHAVXX		ВТН	POINTS	OUT OF ADJUST		1/13/97
		DH82AROBRT	GIPSYMAJOR		AG46	28729	MAGNETO		AU970237
	(AUS) MAGNETO	POINTS CLOSED - TIMI	NG OUT OF ADJUST	MENT					
530		DHAVXX	DHAVXX			NUT	LOOSE		1/13/97
		DH82AROBRT	GIPSYMAJOR			77	CYL HOLD DOWN		AU970235
	(AUS) CYLINDER	HEAD HOLD DOWN NU	JTS LOOSE - HEAD M	OVING ON CYLINDE	R BARREL				
530		DHAVXX	DHAVXX			TAPPET	OUT OF ADJUST		1/13/97
		DH82AROBRT	GIPSYMAJOR			77	ENG VALVES		AU970236
	(AUS) ALL VALVE	E TAPPET CLEARANCES	S OUT OF ADJUSTME	ENT					
530		DHAVXX	DHAVXX			NUT	LOOSE		1/13/97
		DH82AROBRT	GIPSYMAJOR				ENG EXH MANIFOL	.D	AU970238
	(AUS) ENGINE EX	HAUST MANIFOLD AT	TACHMENT NUTS LO	OOSE - ONE NUT MISS	SING - ONE STUD IN	CYLINDER HEAD PULLEI)		
20		MOONE	LYC	HARTZL		CAMSHAFT	WORN		2/13/97
		M20E	IO360A1A	HCC2YK1		LW18840	RECIP ENG LOBES	1080	AU970273
	(AUS) ENGINE WA	AS BULK STRIPPED FOI	LOWING METAL CO	ONTAMINATION OF O	IL FILTER - CAMSH	AFT LOBES FOUND TO BE	WORN		
530		MOONE	LYC	HARTZL		VALVE	FAILED		3/21/97
		M20J	IO360A3B6	HCC2YK1			NR 3 CYL EXH		AU970281
	(AUS) NO3 CYLINI	DER EXHAUST VALVE	HEAD FAILED						
550		PARTEN	LYC	HARTZL		ELBOW	LOOSE		4/9/97
		P68B	IO360A1B6	HCC2YK2		MS208234D	LT ENG OIL LINE		AU970332
	(AUS) LH ENGINE	OIL PRESSURE LINE 4:	5 DEGREE ELBOW FI	TTING LOOSE AND L	EAKING - FITTING I	S LOCATED ON THE CABI	N HEAT EXCHANGER E	XHAUST MA	ANIFOLD
520		PIPER	LYC			CRANKCASE	CRACKED		9/25/97
		PA60600	IO540K1J5				RIGHT HALF	1269	CA971015056
	'					PARKS WERE SEEN COMI CTION FOUND THE ENGIN			
520		PIPER	LYC			TAPPET BODY	BROKEN		3/25/97
		PA60600	IO540K1J5			72877	NR 3 CYL INT	797	AU970310
	(AUS) NO3 CYLIN	DER INLET VALVE TAI	PPET BODY BROKEN	- PUSHROD TUBES L	IGHTLY DISPLACEI	O AND LEAKING OIL			
530		PIPER	LYC	SNSNCH		CYLINDER	CRACKED		3/1/97
		PA28161	O320E3D	74DM		LW12397	NR 3 & 4 CYLS	1500	AU970219
	(AUS) NO1, NO3 A COMPLETED TWO		RACKED FROM LOW	ER SPARK PLUG HOL	ES -CRACKS HEADI	ING TOWARDS EXHAUST	VALVE SEAT - CYLINDI	ERS WERE N	IITRIDED ITEMS AND H
520		PIPER	LYC		LYC	STUDS	FRACTURED	1657	9/27/97
		PA31350	TIO540J2BD			3813	CYLINDER BASE		CA971007015
	` /	L LEAK NOTICED DURI DS FRACTURED. ALL E			DING CARRIED OUT	AT NEAREST AIRPORT. P	OST FLIGHT INSPECTIO	N FOUND F	IVE CYLINDER

INTERNA	TIONAL SERVIC	E DIFFICULTY RE	PORT SUMMARY	- ENGINES (con	ıt'd)		<u>12/7/97 To</u>	12/13/97	ISSUE: 97-50 ZAC-327
ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
8530		PIPER	CONT			PISTON RING	BROKEN	256	10/8/97
		PA34200T	TSIO360E			648042	ENG CYL		CA971016002
	, ,	LINDER REMOVAL TO MANUFACTURER.	CORRECT AN OIL CO	ONSUMPTION PROBI	LEM, IT WAS FOUND	THAT PISTON RING (P/N 6	584042) WAS BROKEN.	IT APPEARS	S THERE WAS A CASTING
7414		PIPER	LYC			DISTRIBUTOR ASSY	CRACKED		9/25/97
		PA44180	O360E1A6			10682054	MAG DIST GEAR	650	CA971007007
	MAGNETO WAS RI REMOVED AND A	EMOVED AND USING A CRACK WAS FOUND U	A CABLE LEAD TESTE NDER THE DISTRIBU	ER FOUND THE NR1 'TOR GEAR. THE CR.	TOWER TO BE SHOR ACK WAS FROM THI	ED SPARK PLUG. PLUGS A TING TO GROUND. THE D E NR2 ELECTRODE TO THE ENGINE AND TESTED SER	ISTRIBUTOR BLOCK A E CENTRE AREA HOLD	ND BEARIN	IG ASSEMBLY WERE
7414		RKWELL	LYC			MAGNETO	WORN		9/23/97
		700	TIO540R2AD			1038291013	MAGNETO DRIVE	1820	CA971014004
	, ,					N FOUND THE CIRCLIP RET ERNAL COMPONENTS TO			
7261		SKRSKY	TMECA		TMECA	CHIP DETECTOR	CONTAMINATED		3/13/97
		S76C	ARRIEL1S		0292005250	15515	TURBINE ENG OIL		AU970282

(AUS) NO1 ENGINE OIL SYSTEM CHIP DETECTORS CONTAMINATED - TYPE III PARTICLE (METAL SLIVER) ON MPI 1 CHIP DETECTOR - TYPE II PARTICLES (DARK DUST) ON MAGNETIC

OIL SYSTEM

15514

CONTAMINATED

TURBINE ENG OIL

TMECA

0292005250

(End of INTERNATIONAL SERVICE DIFFICULTY REPORT SUMMARY - ENGINES)

SKRSKY

S76C

PLUGS - OIL AND FILTER CHANGEDAND ENGINE GROUND RUN SERVICEABLE

TMECA

ARRIEL1S

(AUS) NO2 ENGINE CHIP DETECTORS, MAGNETIC PLUGS AND FILTER CONTAMINATED WITH METAL PARTICLES

7261

3/14/97

AU970287

<u>INTERNATIONAL SERVICE DIFFICULTY REPORT SUMMARY - COMPONENTS</u>

12/7/97	. 12/13/97	ISSUE: 97-50	ZAC-327
1411171	- 14/13/7/	100001.77-30	

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
2562		AMTR				ELT	ACTIVATED		1/31/97
		JABIRUSK				E01	EMERGENCY LOCA	AT	AU970217
	(AUS) ELT ACTIVA	ATED DURING RADIO T	RANSMISSION - THIS	DEFECT WAS RECE	EIVED FROM THE AU	JF AND IS FOR INFORMAT	TON ONLY		
6122		CESSNA		HARTZL	WOODWAR	GOVERNOR	FAULTY		3/18/97
		441		HCB3TN5	8971609	8971609	PROP GOV	24	AU970290
	(AUS) RH ENGINE	PROPELLER GOVERNO	R FAULTY						
2562		PIPER	LYC	SNSNCH		ELT	LOW POWER		4/2/97
		PA18150	O320A2B	M74DM		E01	EMERG LOCATOR		AU970316
	(AUS) ELT OUTPUT	Γ BELOW SPECIFICATION	NC						
2562		PIPER	LYC	SNSNCH		ELT	DAMAGED		3/6/97
		PA18150	O320B2B	M74DM		ACKE01	EMERGENCY LOCA	AT	AU970185
	(AUS) ELT BATTER	RIES DAMAGED AND W	ORN DUE TO POOR	DESIGN OF THE ELT	,				
(End of IN	(End of INTERNATIONAL SERVICE DIFFICULTY REPORT SUMMARY - COMPONENTS)								

INTERNATIONAL SERVICE DIFFICULTY REPORT SUMMARY - PROPELLERS

12/7/97 - 12/13/97 ISSUE: 97-50 ZAC-327

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
6110		ВЕЕСН	CONT	HARTZL	HARTZL	SPRING	FAULTY		4/2/97
		58	IO520C	PHCJ3YF2	PHCJ3YF2VF	A1588B	PROP ASSEMBLY	1505	AU970309
		R CONTAINED THE FOL ON PNO B3237 WORN 5				BOLTS PNO A1595 (20FF) S FENANCE ERROR	SHEARED AND ONE BO	LT BENT 3. (CYLINDER PNO B2423-1
6111		CESSNA	CONT	MCAULY		BLADE	DAMAGE	4791	9/24/97
		A150M	O200A	1A102OCM			PROP LE	1068	CA970930013
	'	R RECEIVED FOR CORR -12) WERE FOUND BEN			AS FOUND ON THE L	EADING EDGE OF THE PR	ROPELLER BLADES, BLA	DES WERE	TRIMMED. MOUNTING
5111		CESSNA	CONT	MCAULY		BLADE	DAMAGE	949	9/19/97
		R172K	IO360KB	2A34C203		90DCA14	PROP LE	614	CA970930012
	(CAN) PROPELLER	R RECEIVED FOR CORR	ROSION INSPECTION.	PROPELLER BLADE	FOUND WITH STON	E DAMAGE. PROPELLER I	BLADE WAS TRIMMED.		
114		CESSNA	CONT	MCAULY		SNAP RING	MISSING		7/20/97
		TU206G	TSIO520M	D3A34C402			PROPELLER BLADE	25	CA970922011
	(CAN) A PROPELL	ER BLADE SNAP RING	DEPARTED THE BLA	ADE DURING FLIGHT.	POST FLIGHT INSPI	ECTION REVEALED A LOC	OSE PROPELLER BLADE	AND A BRO	KEN PITCH LINK.
110		CESSNA	CONT	MCAULY		PROPELLER	FAULTY		3/19/97
		310Q	IO470V	3AF32C87			PROPELLER ASSY	691	AU970266
	(AUS) LH PROPEL	LER SUSPECT OUT OF	BALANCE - LH ENGI	NE FORWARD ENGIN	E MOUNT LOOSE - I	NVESTIGATION FOUND P	ROBLEM CAUSED BY B	LADE ANGI	ES AND PROFILES
111		PIPER	LYC	HARTZL		CYLINDER	SLUDGED		2/12/97
		PA60600	IO540K1J5	HCC3YR		B24231	PROPELLER BLADE	2000	AU970138
	(AUS) PROPELLER	R CYLINDER SLUDGED	RESTRICTING OPER	ATION					
111		STBROS		HARTZL		BEARING	CRACKED		3/6/97
		SC7SERIES3		HCB3TN5		A1851	PROPELLER BLADE	600	AU970197
	()	R BLADE BEARING CRA NTENANCE ERROR - SE				CHED AT LAST OVERHAU	UL - PROPELLERS LAST	OVERHAUL	ED IN SOUTH AFRICA -
5111		STBROS		HARTZL		BLADE	CORRODED		3/6/97
		SC7SERIES3		HCB3TN5		T10282	PROPELLER BLADE	600	AU970195
	(AUS) PROPELLER	R BLADE BUTTS CORRO	ODED BEYOND REPA	AIR - BLADES NOT PR	OTECTED DURING I	LAST OVERHAUL - SEE MI	DR 97/0194 FOR SIMILA	R DEFECT O	N OTHER PROPELLER
5111		STBROS		HARTZL		BLADE	CORRODED		3/6/97
		SC7SERIES3		HCB3TN5		T10282H	PROPELLER BLADE	600	AU970194
					D REPAIRABLE LIMI				



SERVICE DIFFICULTY REPORT SUMMARY GENERAL AVIATION - INDEX



The following information provides a tally of the Service Difficulty Reports (SDR's) contained in this weeks issue of the General Aviation SDR Summary. The totals represent only a summation of the SDR's that were submitted to the FAA, Aviation Data Systems Branch, AFS-620, and processed in time for inclusion in the Summary. The first table is a tally of the number of SDR's submitted through the indicated Flight Standards District Office (FSDO). The second table sorts the SDR's by the aircraft or equipment make and model. The heading at the top of each table provides a two digit Joint Aircraft System/Component (JASC) code grouping (e.g., JASC codes 1100 thru 1800 are represented by the heading labeled 11-18) which categorizes in general, the problem areas for each reported discrepancy.

The Flight Standards Service Difficulty Program objective is to achieve prompt and appropriate correction of conditions adversely affecting continued airworthiness of aeronautical products. This is accomplished by the collection of Service Difficulty and Malfunction or Defect Reports. SDR's are consolidation and collation into common data base where they are analyzed for trends, problems, and alert information. This information is then disseminated to the appropriate segments of the aviation community and to other FAA offices.

The number of SDR's submitted is not an indicator of the mechanical reliability or fitness of an air carrier's aircraft fleet and should not be used as such. The air carriers certificate holding office has the primary responsibility for planning, programming evaluations, and assessing the performance of operators. Questions regarding an air carrier's fleet performance should be directed to the appropriate Flight Standards District Office, Certificate Management Office, or Certificate Management Unit.

STRICT OFFICE 12/7/97 To 12/13/97 ISSUE: 97-50 ZAC-327

DISTRICT				LS BY FAA A					
OFFICE	11-18	21-29	30-38	45-49	51-57	61-67	71-79	80-85	TOTAL
AL 01	0	2	0	0	0	0	0	0	2
AL 03	0	0	0	0	0	0	0	1	1
AU S	0	14	9	0	30	9	9	15	86
CA	0	8	1	0	0	3	8	8	28
CE 01	0	0	1	0	0	0	0	0	1
CE 05	0	1	0	0	0	0	0	0	1
CE 09	0	0	0	0	1	0	0	0	1
EA 07	0	1	0	0	0	0	0	0	1
EA 09	0	0	0	0	2	0	0	0	2
EA 13	0	0	1	0	0	0	2	0	3
EA 23	0	0	0	0	0	0	1	0	1
GL 03	0	0	0	0	0	158	0	0	158
GL 11	0	0	1	0	0	0	0	0	1
GL 15	0	0	1	0	0	0	0	0	1
GL 19	0	0	0	0	0	0	0	1	1
GL 25	0	2	0	0	0	0	0	0	2
GL 27	0	0	0	0	0	0	0	1	1
NE 05	0	1	0	0	0	0	0	0	1
NM 07	0	0	0	0	1	0	0	0	1
NM 09	0	0	0	0	0	1	1	0	2
NM 11	0	5	1	0	1	4	9	1	21
SO 13	0	0	0	0	1	0	0	0	1
SO 21	0	0	0	0	0	0	1	0	1
SW 01	0	0	0	0	0	0	1	0	1
SW 03	0	14	8	0	5	17	12	0	56
SW 05	0	2	4	0	0	3	3	0	12

GENERAL AVIATION SUMMARY INDEX by	v DISTRICT OFFICE (cont'd)
	, DISTINCT OFFICE (com a,

GENERAL AVIATION SUMMARY INDEX by DISTRICT OFFICE (cont'd)								12/13/97 ISSU	E: 97-50 ZAC-327
DISTRICT			SDR TOTA						
OFFICE	11-18	21-29	30-38	45-49	51-57	61-67	71-79	80-85	TOTAL
WP 05	0	0	0	0	0	0	0	1	1
WP 07	0	0	2	0	1	0	0	0	3
TOTALS	0	50	29	0	42	195	47	28	391
(End of GENERAL AVIATION SUMMARY INDEX by DISTRICT OFFICE Report)									

GENERAL AVIATION SUMMARY INDEX by MANUFACTURER MAKE and MODEL

12/7/97 To 12/13/97 ISSUE: 97-50 ZAC-327

AIRCRAFT MAKE	AIRCRAFT MODEL	11-18	21-29	SDR TOTA 30-38	LS BY FAA A 45-49	TA SYSTEM (51-57	CHAPTER 61-67	71-79	80-85	TOTAL
ADAMS	A55	0	0	0	0	0	1	0	0	1
AMTR	JABIRUSK	0	1	1	0	0	0	0	0	2
AMTR	MINI500	0	0	0	0	0	0	0	1	1
AMTRMX	XP503	0	0	1	0	0	0	0	0	1
BBAVIA	7ECA	0	0	0	0	0	0	0	1	1
BBAVIA	8GCBC	0	1	0	0	0	1	0	0	2
ВЕЕСН	100BEECH	0	0	0	0	0	1	0	0	1
ВЕЕСН	200BEECH	0	0	0	0	0	0	1	0	1
ВЕЕСН	200BEECH	0	2	0	0	1	0	0	0	3
ВЕЕСН	200CBEECH	0	0	1	0	0	0	0	0	1
BEECH	3533	0	0	0	0	0	2	0	0	2
ВЕЕСН	35B33	0	0	0	0	0	1	0	0	1
BEECH	35BEECH	0	0	0	0	0	7	0	0	7
BEECH	36BEECH	0	0	0	0	0	2	0	0	2
ВЕЕСН	58	0	1	0	0	1	2	0	0	4
ВЕЕСН	58P	0	0	0	0	0	2	0	0	2
ВЕЕСН	65A90	0	0	0	0	0	0	1	1	2
ВЕЕСН	76	0	0	1	0	1	0	0	0	2
ВЕЕСН	9555	0	0	0	0	0	2	0	0	2
ВЕЕСН	95B55	0	0	0	0	0	0	0	1	1
ВЕЕСН	95C55	0	0	0	0	1	0	0	0	1
ВЕЕСН	A36	0	0	0	0	0	0	0	2	2
BEECH	B100	0	0	1	0	0	1	0	0	2
ВЕЕСН	B200C	0	0	0	0	1	0	0	0	1
ВЕЕСН	B60	0	0	0	0	0	0	1	0	1
ВЕЕСН	B90	0	0	0	0	0	2	0	0	2
ВЕЕСН	C23	0	0	1	0	0	0	0	0	1

GENERAL AV	IATION SUMMARY	12/7/97 To 12/13/97 ISSUE: 97-50 ZAC-327								
AIRCRAFT MAKE	AIRCRAFT MODEL	11-18	21-29	SDR TOTA 30-38	ALS BY FAA A 45-49	TA SYSTEM 51-57	CHAPTER 61-67	71-79	80-85	TOTAL
ВЕЕСН	D35	0	0	0	0	0	1	0	0	1
BEECH	V35	0	0	0	0	0	3	0	0	3
BEECH	V35A	0	0	0	0	0	1	0	0	1
BELL	206B	0	0	0	0	0	1	0	0	1
BELL	206B3	0	0	1	0	0	0	0	0	1
BELL	206L1	0	1	3	0	2	2	5	0	13
BELL	206L1	0	1	0	0	1	0	0	0	2
BELL	206L3	0	1	0	0	0	0	0	0	1
BELL	212	0	1	0	0	0	0	0	0	1
BELL	214ST	0	3	0	0	0	0	0	0	3
BELL	230	0	0	0	0	0	2	0	0	2
BELL	230	0	0	2	0	0	0	0	0	2
BELL	407	0	1	1	0	0	7	1	0	10
BELL	407	0	0	0	0	0	2	0	0	2
BELL	412	0	3	0	0	3	0	1	0	7
BNORM	BN2A21	0	0	0	0	1	0	0	0	1
BOEING	1072	0	0	0	0	0	1	0	0	1
BOLKMS	BK117A3	0	1	0	0	0	0	1	1	3
BOLKMS	BK117A3	0	1	2	0	0	1	0	0	4
BOLKMS	BK117A4	0	0	0	0	0	0	2	0	2
BOLKMS	BK117A4	0	0	0	0	0	0	2	0	2
BOLKMS	BK117B1	0	1	1	0	0	1	2	0	5
BOLKMS	BK117B2	0	0	1	0	0	0	0	0	1
BOLKMS	BK117C1	0	1	0	0	0	2	1	0	4
BOLKMS	BO105CBS	0	1	0	0	0	0	0	0	1
BOLKMS	BO105LSA3	0	1	0	0	0	3	2	0	6
BOLKMS	BO105S	0	5	0	0	0	0	3	0	8

GENERAL AV	IATION SUMMARY	12/7/97 To 12/13/97 ISSUE: 97-50 ZAC-327								
AIRCRAFT MAKE	AIRCRAFT MODEL	11-18	21-29	SDR TOTA 30-38	LS BY FAA A 45-49	TA SYSTEM 51-57	CHAPTER 61-67	71-79	80-85	TOTAL
BOLKMS	BO105S	0	0	0	0	0	0	3	0	3
CESSNA	150L	0	0	0	0	0	0	0	1	1
CESSNA	152	0	0	0	0	0	2	0	0	2
CESSNA	172D	0	0	0	0	0	0	1	0	1
CESSNA	172G	0	0	0	0	1	0	0	0	1
CESSNA	172M	0	0	0	0	0	0	1	0	1
CESSNA	172N	0	0	1	0	0	0	0	0	1
CESSNA	172P	0	0	0	0	0	0	0	1	1
CESSNA	172RG	0	0	1	0	0	0	0	0	1
CESSNA	177RG	0	0	0	0	2	0	0	0	2
CESSNA	180	0	0	0	0	0	1	0	0	1
CESSNA	180A	0	0	0	0	0	1	0	0	1
CESSNA	180G	0	0	0	0	0	1	0	0	1
CESSNA	182	0	0	0	0	0	5	0	0	5
CESSNA	182D	0	0	0	0	14	0	0	0	14
CESSNA	182J	0	0	0	0	0	1	0	0	1
CESSNA	182P	0	0	0	0	0	5	0	0	5
CESSNA	182Q	0	0	1	0	0	1	0	0	2
CESSNA	188B	0	0	0	0	0	1	0	0	1
CESSNA	188CESSNA	0	0	0	0	0	8	0	0	8
CESSNA	208B	0	0	0	0	1	0	0	0	1
CESSNA	210	0	0	0	0	0	4	0	0	4
CESSNA	210L	0	0	0	0	0	0	0	1	1
CESSNA	210M	0	0	0	0	0	0	0	1	1
CESSNA	210N	0	1	1	0	0	0	1	1	4
CESSNA	310	0	0	0	0	0	17	0	0	17
CESSNA	310Ј	0	0	0	0	0	2	0	0	2

GENERAL AV	IATION SUMMARY I	12/7/97 To 12/13/97 ISSUE: 97-50 ZAC-327								
AIRCRAFT MAKE	AIRCRAFT MODEL	11-18	21-29	SDR TOTA 30-38	LS BY FAA A 45-49	TA SYSTEM 51-57	CHAPTER 61-67	71-79	80-85	TOTAL
CESSNA	310N	0	0	0	0	0	0	0	1	1
CESSNA	310P	0	0	0	0	0	2	0	0	2
CESSNA	310Q	0	0	0	0	0	5	0	0	5
CESSNA	310R	0	0	1	0	0	10	0	0	11
CESSNA	340A	0	0	0	0	0	2	0	0	2
CESSNA	340CESSNA	0	0	0	0	0	3	0	0	3
CESSNA	401	0	0	0	0	0	2	0	0	2
CESSNA	402A	0	0	0	0	0	1	0	0	1
CESSNA	402B	0	0	0	0	1	6	0	0	7
CESSNA	402C	0	0	0	0	0	1	0	0	1
CESSNA	404CESSNA	0	1	0	0	0	0	0	1	2
CESSNA	414	0	0	0	0	0	6	0	0	6
CESSNA	414A	0	0	0	0	0	0	0	2	2
CESSNA	414A	0	0	0	0	0	1	0	0	1
CESSNA	421	0	0	0	0	0	3	0	0	3
CESSNA	421C	0	0	0	0	1	0	1	0	2
CESSNA	441	0	0	0	0	2	2	0	0	4
CESSNA	550	0	1	0	0	0	0	0	0	1
CESSNA	550	0	1	0	0	0	0	0	0	1
CESSNA	A150M	0	0	0	0	0	1	0	0	1
CESSNA	A152	0	0	0	0	1	0	0	0	1
CESSNA	P206C	0	0	0	0	0	2	0	0	2
CESSNA	R172K	0	0	0	0	0	1	1	0	2
CESSNA	T210L	0	1	0	0	0	0	0	0	1
CESSNA	T303	0	0	0	0	0	1	0	0	1
CESSNA	TU206G	0	0	0	0	0	1	0	0	1
CESSNA	U206F	0	1	0	0	0	0	0	0	1

GENERAL AV	TATION SUMMARY INI	12/7/97 To 12/13/97 ISSUE: 97-50 ZAC-327								
AIRCRAFT MAKE	AIRCRAFT MODEL	11-18	21-29	SDR TOTA 30-38	ALS BY FAA A 45-49	TA SYSTEM 51-57	CHAPTER 61-67	71-79	80-85	TOTAL
CESSNA	U206F	0	0	0	0	0	6	0	0	6
CESSNA	U206G	0	4	0	0	0	0	0	0	4
CHRIS	A1	0	0	0	0	0	0	1	0	1
CONAER	LA4200	0	0	0	0	0	1	0	0	1
DHAV	DHC2*	0	0	0	0	0	0	0	1	1
DHAV	DHC2MK1	0	0	0	0	0	0	2	0	2
DHAV	DHC3	0	1	0	0	0	0	0	0	1
DHAV	DHC3	0	0	0	0	0	4	0	0	4
DHAV	DHC6300	0	0	1	0	0	0	0	0	1
DHAV	DHC6300	0	0	0	0	0	4	0	0	4
DHAVXX	DH82AROBRTSN	0	0	0	0	0	0	2	3	5
EMB	EMB110P1	0	1	0	0	0	0	0	0	1
GROB	G115C	0	0	1	0	0	0	0	0	1
GULSTM	114	0	0	0	0	0	0	1	0	1
GULSTM	500S	0	1	0	0	0	0	0	0	1
GULSTM	690	0	0	0	0	0	2	0	0	2
HUGHES	269C	0	0	1	0	0	0	0	0	1
HUGHES	369D	0	0	0	0	0	0	1	0	1
HUGHES	500N	0	0	1	0	0	0	0	0	1
MAULE	M5200	0	0	0	0	0	1	0	0	1
MOONEY	M20E	0	0	0	0	0	0	0	1	1
MOONEY	M20J	0	0	0	0	0	0	0	1	1
MTSBSI	MU2*	0	0	0	0	0	1	0	0	1
MTSBSI	MU2B60	0	0	0	0	0	0	1	0	1
PARTEN	P68B	0	0	0	0	0	0	0	1	1
PARTEN	P68TCOBS	0	0	0	0	0	0	1	0	1
PIPER	PA18150	0	2	0	0	0	0	1	0	3

GENERAL AV	IATION SUMMARY	<u>12/7/97 To</u>	12/7/97 To 12/13/97 ISSUE: 97-50 ZAC-327							
AIRCRAFT MAKE	AIRCRAFT MODEL	11-18	21-29	SDR TOTA 30-38	ALS BY FAA <i>A</i> 45-49	TA SYSTEM 51-57	CHAPTER 61-67	71-79	80-85	TOTAL
PIPER	PA23150	0	0	0	0	0	1	0	0	1
PIPER	PA23250	0	0	0	0	0	2	0	0	2
PIPER	PA24400	0	0	0	0	0	2	0	0	2
PIPER	PA28161	0	0	0	0	0	0	0	1	1
PIPER	PA28180	0	0	1	0	0	0	0	0	1
PIPER	PA28R200	0	0	0	0	0	1	0	0	1
PIPER	PA31	0	0	0	0	0	3	0	0	3
PIPER	PA31310	0	0	0	0	2	0	0	0	2
PIPER	PA31350	0	0	0	0	0	0	0	1	1
PIPER	PA31350	0	4	0	0	0	0	0	0	4
PIPER	PA31T	0	0	1	0	0	0	0	0	1
PIPER	PA32300	0	0	0	0	0	2	0	0	2
PIPER	PA32R300	0	0	0	0	0	1	0	0	1
PIPER	PA32R301T	0	1	0	0	0	0	0	0	1
PIPER	PA34200	0	0	0	0	2	1	0	0	3
PIPER	PA34200T	0	1	0	0	0	0	0	1	2
PIPER	PA42720	0	0	0	0	0	0	1	0	1
PIPER	PA44180	0	0	0	0	0	0	1	0	1
PIPER	PA44180	0	0	0	0	1	0	0	0	1
PIPER	PA44180T	0	0	0	0	0	1	0	0	1
PIPER	PA46350P	0	1	0	0	0	0	0	0	1
PIPER	PA60600	0	0	0	0	0	0	0	1	1
PIPER	PA60600	0	0	0	0	0	1	0	1	2
RKWELL	700	0	0	0	0	0	0	1	0	1
SKRSKY	S76A	0	0	1	0	0	2	1	0	4
SKRSKY	S76A	0	0	0	0	0	1	0	0	1
SKRSKY	S76C	0	0	0	0	0	0	2	0	2

GENERAL AV	IATION SUMMARY IN	12/7/97 To 12/13/97 ISSUE: 97-50 ZAC-327								
AIRCRAFT	AIRCRAFT		SDR TOTALS BY FAA ATA SYSTEM CHAPTER							
MAKE	MODEL	11-18	21-29	30-38	45-49	51-57	61-67	71-79	80-85	TOTAL
SNIAS	AS350B2	0	0	0	0	0	2	0	0	2
SOCATA	TB10TOBAGO	0	0	0	0	2	0	0	0	2
STBROS	SC7SERIES3	0	0	0	0	0	3	0	0	3
UNIVAR	1082	0	0	0	0	0	3	0	0	3
UNIVAR	415D	0	1	0	0	0	0	0	0	1
	TOTALS	0	50	29	0	42	195	47	28	391
(End of AIR CARRIER SUMMARY INDEX by OPERATOR Report)										

JOINT AIRCRAFT SYSTEM/COMPONENT CODE TABLE

PREFACE

The Joint Aircraft System/Component (JASC) Code Table is a modified version of the Air Transport Association of America (ATA), Specification 100 code. It was developed by the Federal Aviation Administration's (FAA), Aviation Data Systems Branch (AFS-620). Technical support was provided by the Galaxy Scientific Corporation, and various representatives of the air carrier and general aviation community.

Over the past four years, the JASC format of the ATA Spec 100 code has gained widespread industry acceptance. In a harmonized effort, the FAA's counterparts in Australia and Canada have adopted the JASC code with only a few exceptions. Some Canadian aircraft manufacturers have also recently adopted this new stardard.

This code table is constructed by using the new JASC four (4) digit code, along with an abbreviated code title. The abbreviated titles have been modified in some cases to clarify the intended use of the accompanying code. This table can be used as a quick reference chart, to assist in the coding and review of aircraft structures or systems data (i.e., Service Difficulty Report (SDR), Accident/Incident Report).

The current coding scheme used in the JASC code was introduced in May 1991, for the technical classification of SDR's. Its predecessor, the FAA aircraft system/component code, was a similar but more complex eight-digit code which was developed over 25 years ago. It was constructed around the computer technology of that period. It consisted of a four digit numerical code plus a four alpha character code to make data retrieval possible. Since that time, computer technology has advanced many fold. Reducing the code from eight to four characters simplifies coding, and in some cases, makes JASC coding match the ATA Specification 100 first three digits, which are used to identify aircraft systems. The ATA code does not reference the fourth digit, so it is free to be used for identifying components.

The JASC code aircraft structural section has increased due to problems inherent with aging aircraft. As an example, FAA code 5301 SXBD was expanded to 20 items due to the high rate of reporting in this area (8021 structural reports were received in 1989). In some instances, there was very little reporting and codes were combined into other systems if the safety impact was not significant. The overall reduction in codes has been from 568 FAA codes to 488 JASC codes, with the significant increase being in the structural area as stated earlier.

The JASC code divides the engine section into two major code groups to separate the turbine and reciprocating engines. The codes for the turbine engines are in JASC Chapter 72, Turbine/Turboprop Engine. The codes for the reciprocating engines are now exclusively found in JASC Chapter 85, Reciprocating Engine.

The other major deviation from ATA Spec 100 is in ATA section 2730, specifically involves the stall warning system. Early technology (primarily on smaller aircraft) directly linked the sensing of flight attitude to one of the components which furnished the means of manually controlling the flight attitude characteristics (elevator). Today, most large transport category aircraft utilize electronic units to sense the change in the environmental condition called stall, and use the data to influence navigation. ATA section 3410, Flight Environment Data, includes high speed warning in its code definition. Stall warning (low speed) is the reciprocal term of high speed warning, so its filing under the same code appears more logical. Thus, with the JASC code it was decided to move the stall warning system to Chapter 34 under the separate code JASC code 3418, Stall Warning System.

The FAA is continuing to pursue worldwide involvement from operators and manufacturers in addressing the need for international standardization of aircraft system/component codes. The ultimate goal is to develop a universal aircraft/component numbering standard which can be used in the manufacturer's maintenance manual, wiring diagram manual, system manuals and illustrated parts catalog. This harmonized standard must be a usable standard for the aircraft manufacturers, air carrier operators and the general aviation community.

We welcome comments and feedback regarding the possible forming of working groups to achieve this long range consideration of possibly harmonizing the ATA Specification 100 code and the JASC code. Comments may be directed to the FAA, Aviation Data Sytem Branch, AFS-620, P.O. Box 25082, Oklahoma City, OK 73125.

JOINT AIRCRAFT SYSTEM/COMPONENT CODE TABLE

JASC/ TITLE

2170 HUMIDITY CONTROL SYSTEM

11 PLACARDS AND	MARKINGS 22	AUTO FLIGHT	24 E	LECTRICAL POWER CONT'D
1100 PLACARDS AND N	MARKINGS 2200	AUTO FLIGHT SYSTEM	2424	AC REGULATOR
	2210		2425	AC INDICATING SYSTEM
12 SERVICING	2211	AUTOPILOT COMPUTER	2430	DC GENERATING SYSTEM
<u> 12 021(11011(0</u>	2212	ALTITUDE CONTROLLER	2431	BATTERY OVERHEAT WARN. SYSTEM
1010 51151 0551/101110	2213	FLIGHT CONTROLLER	2432	BATTERY/CHARGER SYSTEM
1210 FUEL SERVICING	2214	AUTOPILOT TRIM INDICATOR	2433	DC RECTIFIER-CONVERTER
1220 OIL SERVICING	2215	AUTOPILOT MAIN SERVO	2434	DC GENERATOR-ALTERNATOR
1230 HYDRAULIC FLUID	2216	AUTOPILOT TRIM SERVO	2435	STARTER-GENERATOR
1240 COOLANT SERVIC	ING 2220	SPEED-ATTITUDE CORRECT. SYSTEM	2436	DC REGULATOR
40 HELICOPTED VIDE	2230	AUTO THROTTLE SYSTEM	2437	DC INDICATING SYSTEM
18 HELICOPTER VIBE	2250	A ERODYNAMIC LOAD ALLEVIATING	2440	EXTERNAL POWER SYSTEM
1800 HELICOPTER VIB/I	NOISE ANALYSIS		2450	AC POWER DISTRIBUTION SYSTEM
1810 HELICOPTER VIBR	ATION ANALYSIS 23	COMMUNICATIONS	2460	DC POWER/DISTRIBUTION SYSTEM
1820 HELICOPTER NOIS	E ANALYSIS			
24 AIR CONDITIONIA	2300		<u> 25 E</u>	QUIPM ENT/FURNISHINGS
21 AIR CONDITIONIN			0500	CARIN FOURMENT/FURNIOUMO
2100 AIR CONDITIONIN	G SYSTEM 2311	UHF COMMUNICATION SYSTEM	2500	CABIN EQUIPMENT/FURNISHINGS
2110 CABIN COMPRESS	2312	VHF COMMUNICATION SYSTEM	2510	FLIGHT COMPARTMENT EQUIPMENT
2120 AIR DISTRIBUTION	2220	DATA TRANSMISSION AUTO CALL	2520	PASSENGER COMPARTMENT EQUIPMENT
2121 AIR DISTRIBUTION	2330	ENTERTAINMENT SYSTEM	2530	BUFFET/GALLEYS
	CONTROL SYSTEM 2340	INTERPHONE & PA SYSTEM	2540	LAVATORIES
2131 CABIN PRESSURE	2250	AUDIO INTEGRATING SYSTEM	2550	CARGO COMPARTMENTS
2132 CABIN PRESSURE	2260	STATIC DISCHARGE SYSTEM	2551	AGRICULTURAL SPRAY SYSTEM
	/OUTFLOW VALVE 2370	AUDIO/VIDEO MONITORING	2560	EMERGENCY EQUIPMENT
2134 CABIN PRESSURE		ELECTRICAL POWER	2561	LIFE JACKET
2140 HEATING SYSTEM	- · · ·	<u> LEEGTRIOAL TOWER</u>	2562	EMERGENCY LOCATOR BEACON
2150 CABIN COOLING S		ELECTRICAL POWER SYSTEM	2563	PARACHUTE
	URE CONTROL SYSTEM 2410	ALTERNATOR-GENERATOR DRIVE	2564	LIFE RAFT
	URE CONTROLLER 2420		2565	ESCAPE SLIDE
2162 CABIN TEMPERAT			2570	ACCESSORY COMPARTMENT
2163 CABIN TEMPERAT	****		2571	BATTERY BOX STRUCTURE
	0112 02110011		2572	ELECTRONIC SHELF SECTION

2423 PHASE ADAPTER

26 FIRE PROTECTION	29 F	HYDRAULIC POWER	<u>32 L</u>	ANDING GEAR
2600 FIRE PROTECTION SYSTEM	2900	HYDRAULIC POWER SYSTEM	3200	LANDING GEAR SYSTEM
2610 DETECTION SYSTEM	2910	HYDRAULIC, MAIN SYSTEM	3201	LANDING GEAR/WHEEL FAIRING
2611 SMOKE DETECTION	2911	HYDRAULIC POWER-ACCUMULATOR-MAIN	3210	MAIN LANDING GEAR
2612 FIRE DETECTION	2912	HYDRAULIC FILTER-MAIN SYSTEM	3211	MAIN LANDING GEAR ATTACH SECTION
2613 OVERHEAT DETECTION	2913	HYDRAULIC PUMP. ELECT-ENGMAIN	3212	EMERGENCY FLOTATION SECTION
2620 EXTINGUISHING SYSTEM	2914	HYDRAULIC HANDPUMP-MAIN	3213	MAIN LANDING GEAR STRUT/AXLE/TRUCK
2621 FIRE BOTTLE, FIXED	2915	HYDRAULIC PRESSURE RELIEF VLV-MAIN	3220	NOSE/TAIL LANDING GEAR
2622 FIRE BOTTLE, PORTABLE	2916	HYDRAULIC RESERVOIR-MAIN	3221	NOSE/TAIL LANDING GEAR ATTACH SECTION
AZ FILOUT CONTROLO	2917	HYDRAULIC PRESSURE REGULATOR-MAIN	3222	NOSE/TAIL LANDING GEAR STRUT/AXLE
27 FLIGHT CONTROLS	2920	HYDRAULIC, AUXILIARY SYSTEM	3230	LANDING GEAR RETRACT/EXT. SYSTEM
2700 FLIGHT CONTROL SYSTEM	2921	HYDRAULIC ACCUMULATOR-AUXILIARY	3231	LANDING GEAR DOOR RETRACT SECTION
2701 CONTROL COLUMN SECTION	2922	HYDRAULIC FILTER-AUXILIARY	3232	LANDING GEAR DOOR ACTUATOR
2710 AILERON CONTROL SYSTEM	2923	HYDRAULIC PUMP-AUXILIARY	3233	LANDING GEAR ACTUATOR
2711 AILERON TAB CONTROL SYSTEM	2925	HYDRAULIC PRESSURE RELIEF-AUXILIARY	3234	LANDING GEAR SELECTOR
2720 RUDDER CONTROL SYSTEM	2926	HYDRAULIC RESERVOIR-AUXILIARY	3240	LANDING GEAR BRAKE SYSTEM
2721 RUDDER TAB CONTROL SYSTEM	2927	HYDRAULIC PRESSURE REGULATOR-AUX.	3241	BRAKE ANTI-SKID SECTION
2722 RUDDER ACTUATOR	2930	HYDRAULIC SYSTEM INDICATING	3242	BRAKE
2730 ELEVATOR CONTROL SYSTEM	2931	HYDRAULIC PRESSURE INDICATOR	3243	MASTER CYL/BRAKE VALVE
2731 ELEVATOR TAB CONTROL SYSTEM	2932	HYDRAULIC PRESSURE SENSOR	3244	TIRE
2740 STABILIZER CONTROL SYSTEM	2933	HYDRAULIC QUANTITY INDICATOR	3245	TIRE TUBE
2741 STABILIZER POSITION INDICATING	2934	HYDRAULIC QUANTITY SENSOR	3246	WHEEL/SKI/FLOAT
2742 STABILIZER ACTUATOR	30 I	CE AND RAIN PROTECTION	3250	LANDING GEAR STEERING SYSTEM
2750 TE FLAP CONTROL SYSTEM			3251	STEERING UNIT
2751 TE FLAP POSITION IND. SYSTEM	3000	ICE/RAIN PROTECTION SYSTEM	3252	SHIMMY DAMPER
2752 TE FLAP ACTUATOR	3010	AIRFOIL ANTI/DE-ICE SYSTEM	3260	LANDING GEAR POSITION & WARNING
2760 DRAG CONTROL SYSTEM	3020	AIR INTAKE ANTI/DE-ICE SYSTEM	3270	AUXILIARY GEAR (TAIL SKID)
2761 DRAG CONTROL ACTUATOR	3030	PITOT/STATIC ANTI-ICE SYSTEM	33 I	<u>IGHTS</u>
2770 GUST LOCK/DAMPER SYSTEM	3040	WINDSHIELD/DOOR RAIN/ICE REMOVAL		
2780 LE FLAP CONTROL SYSTEM	3050	ANTENNA/RADOME ANTI-ICE/DE-ICE SYSTEM	3300	LIGHTING SYSTEM
2781 LE FLAP POSITION IND. SYSTEM	3060	PROP/ROTOR ANTI-ICE/DE-ICE SYSTEM	3310	FLIGHT COMPARTMENT LIGHTING
2782 LE FLAP ACTUATOR	3070	WATER LINE ANTI-ICE SYSTEM	3320	PASSENGER COMPARTMENT LIGHTING
28 FUEL	3080	ICE DETECTION	3330	CARGO COMPARTMENT LIGHTING
2800 AIRCRAFT FUEL SYSTEM	<u>31 I</u>	<u>NSTRUMENTS</u>	3340 3350	EXTERIOR LIGHTING EMERGENCY LIGHTING
2810 FUEL STORAGE	3100	INDICATING/RECORDING SYSTEM		
2820 ACFT FUEL DISTRIB. SYSTEM	3110	INSTRUMENT PANEL	<u>34 N</u>	AVIGATION
2821 ACFT FUEL FILTER/STRAINER	3120	INDEPENDENT INSTRUMENTS (CLOCK, ETC.)	3400	NAVIGATION SYSTEM
2822 FUEL BOOST PUMP	3130	DATA RECORDERS (FLT/MAINT)	3410	FLIGHT ENVIRONMENT DATA
2823 FUEL SELECTOR/SHUTOFF VALVE	3140	CENTRAL COMPUTERS (EICAS)	3411	PITOT/STATIC SYSTEM
2824 FUEL TRANSFER VALVE	3150	CENTRAL WARNING	3412	OUTSIDE AIR TEMP. IND./SENSOR
2830 FUEL DUMP SYSTEM	3160	CENTRAL DISPLAY	3413	RATE OF CLIMB INDICATOR
2840 ACFT FUEL INDICATING	3170	AUTOMATIC DATA	3414	AIRSPEED/MACH INDICATING
2841 FUEL QUANTITY INDICATOR			3415	HIGH SPEED WARNING
2842 FUEL QUANTITY SENSOR			3416	ALTIMETER, BAROMETRIC/ENCODER
2843 FUEL TEMPERATURE INDICATING				

2844 FUEL PRESSURE INDICATOR

34 NAVIGATION CONT'D	37 VACUUM	5247 APU DOORS
3417 AIR DATA COMPUTER	3700 VACUUM SYSTEM	5248 TAIL CONE DOORS
3418 STALL WARNING SYSTEM	3710 VACUUM DISTRIBUTION SYSTEM	5250 FIXED INNER DOORS
3420 ATTITUDE AND DIRECTION DAT	A SYSTEM 3720 VACUUM INDICATING SYSTEM	5260 ENTRANCE STAIRS
3421 ATTITUDE GYRO & IND. SYSTEM	1	5270 DOOR WARNING SYSTEM
3422 DIRECTIONAL GYRO & IND. SYS	38 WAIER/WASIE	5280 LANDING GEAR DOORS
3423 MAGNETIC COMPASS	3800 WATER & WASTE SYSTEM	53 FUSELAGE
3424 TURN & BANK/RATE OF TURN II	NDICATOR 3810 POTABLE WATER SYSTEM	5300 FUSELAGE STRUCTURE (GENERAL)
3425 INTEGRATED FLT. DIRECTOR SY	STEM 3820 WASH WATER SYSTEM	5301 AERIAL TOW EQUIPMENT
3430 LANDING & TAXI AIDS	3830 WASTE DISPOSAL SYSTEM	5302 ROTORCRAFT TAIL BOOM
3431 LOCALIZER/VOR SYSTEM	3840 AIR SUPPLY (WATER PRESS. SYSTEM	M) 5310 FUSELAGE MAIN STRUCTURE
3432 GLIDE SLOPE SYSTEM 3433 MICROWAVE LANDING SYSTEM	45 CENTRAL MAINT. SYSTEM	5311 FUSELAGE MAIN FRAME 5312 FUSELAGE MAIN BULKHEAD
3434 MARKER BEACON SYSTEM	4500 CENTRAL MAINT. COMPUTER	5312 FUSELAGE MAIN BULKHEAD 5313 FUSELAGE MAIN LONGERON/STRINGER
3435 HEADS UP DISPLAY SYSTEM	Joseph General Marinetti Golini Gren	5314 FUSELAGE MAIN KEEL
3436 WIND SHEAR DETECTION SYSTI	49 AIRBORNE AUXILIARY POWER	5314 FUSELAGE MAIN REEL 5315 FUSELAGE MAIN FLOOR BEAM
3440 INDEPENDENT POS. DETERMINI	NO CYCTEM	5320 FUSELAGE MISCELLANEOUS STRUCTURE
3441 INERTIAL GUIDANCE SYSTEM	4900 AINBONNE AFO STSTEM	5321 FUSELAGE FLOOR PANEL
3442 WEATHER RADAR SYSTEM	4910 A PU COW LING/CONTAINMENT	5322 FUSELAGE INTERNAL MOUNT STRUCTURE
3443 DOPPLER SYSTEM	4920 APU CORE ENGINE	5323 FUSELAGE INTERNAL STAIRS
3444 GROUND PROXIMITY SYSTEM	4930 A PU ENGINE FUEL & CONTROL	5324 FUSELAGE FIXED PARTITIONS
3445 AIR COLLISION AVOIDANCE SY	4940 A PU START/IGNITION SYSTEM STEM (TCAS) 4950 A PU BLEED AIR SYSTEM	5330 FUSELAGE MAIN PLATE/SKIN
3446 NON RADAR WEATHER SYSTEM	4930 AFO BEEED AIR STOTEM	5340 FUSELAGE MAIN ATTACH FITTINGS
3450 DEPENDENT POSITION DETERM	NINC SYSTEM 4900 AFO CONTROLS	5341 WING ATTACH FITTINGS (ON FUSELAGE)
3451 DME/TACAN SYSTEM	4970 APO INDICATING SYSTEM	5342 STABILIZER ATTACH FITTINGS
3452 ATC TRANSPONDER SYSTEM		5343 LANDING GEAR ATTACH FITTINGS
3453 LORAN SYSTEM	4990 APU OIL SYSTEM	5344 FUSELAGE DOOR HINGES
3454 VOR SYSTEM	51 STANDARD PRACTICES/STRUCT	
3455 ADF SYSTEM		5346 DOWEDDIANT ATTACH FITTINGS
3456 OMEGA NAVIGATION SYSTEM	5100 STANDARD PRACTICES/STRUCTURE	5347 SEAT/CARGO ATTACH FITTINGS
3457 GLOBAL POSITIONING SYSTEM	5101 AIRCRAFT STRUCTURES	5350 FUSELAGE AERODYNAMIC FAIRINGS
3460 FLIGHT MANAGE. COMPUTING	SYSTEM 5102 BALLOON REPORTS	54 NACELLES/PYLONS
25 OVVCEN	52 DOORS	
35 OXYGEN	<u>52 DOORS</u>	5400 NACELLE/PYLON STRUCTURE
3500 OXYGEN SYSTEM	5200 DOORS	5410 MAIN FRAME (ON NACELLE/PYLON)
3510 CREW OXYGEN SYSTEM	5210 PASSENGER/CREW DOORS	5411 FRAME/SPAR/RIB(NACELLE/PYLON)
3520 PASSENGER OXYGEN SYSTEM	5220 EMERGENCY EXIT	5412 BULKHEAD/FIREWALL (NAC/PYLON)
3530 PORTABLE OXYGEN SYSTEM	5230 CARGO/BAGGAGE DOORS	5413 LONGERON/STRINGER (NAC/PYLON)
36 PNEUMATIC	5240 SERVICE DOORS	5414 PLATE SKIN (NAC/PYLONS)
	5241 GALLEY DOORS	5415 ATTACH FITTINGS (NAC/PYLON)
3600 PNEUMATIC SYSTEM	5242 F/E COMPARTMENT DOORS	<u>55 STABILIZERS</u>
3610 PNEUMATIC DISTRIBUTION SYS	TEM 5243 HYDRAULIC COMPARTMENT DOORS	5500 EMPENNAGE STRUCTURE
3620 PNEUMATIC INDICATING SYSTE	M 5244 ACCESSORY COMPARTMENT DOORS	
	5245 AIR CONDITIONING COMPART. DOOR	RS 5511 HORIZONTAL STABILIZER SPAR/RIB
	5246 FLUID SERVICE DOORS	5512 HORIZONTAL STABILIZER PLATE/SKIN
		5513 HORIZONTAL STABILIZER TAB STRUCTURE
		5520 ELEVATOR STRUCTURE

55 STABILIZERS CONT'D	61 PROPELLERS/PROPULSORS	67 ROTORS FLIGHT CONTROL
5521 ELEVATOR SPAR/RIB STRUCTURE	6100 PROPELLER SYSTEM	6700 ROTORCRAFT FLIGHT CONTROL
5522 ELEVATOR PLATES/SKIN STRUCTURE	6110 PROPELLER ASSEMBLY	6710 MAIN ROTOR CONTROL
5523 ELEVATOR TAB STRUCTURE	6111 PROPELLER BLADE SECTION	6711 TILT ROTOR FLIGHT CONTROL
5530 VERTICAL STABILIZER STRUCTURE	6112 PROPELLER DE-ICE BOOT SECTION	6720 TAIL ROTOR CONTROL SYSTEM
5531 VERTICAL STABILIZER SPAR/RIB STRUCTUR	RE 6113 PROPELLER SPINNER SECTION	6730 ROTORCRAFT SERVO SYSTEM
5532 VERTICAL STABILIZER PLATES/SKIN	6114 PROPELLER HUB SECTION	_,
5533 VENTRAL STRUCTURE (ON VERT. STAB)	6120 PROPELLER CONTROL SYSTEM	71 POWERPLANT
5540 RUDDER STRUCTURE	6121 PROPELLER SYNCHRONIZER SECTION	7100 POWERPLANT SYSTEM
5541 RUDDER SPAR/RIB STRUCTURE	6122 PROPELLER GOVERNOR	7110 ENGINE COWLING SYSTEM
5542 RUDDER PLATE/SKIN STRUCTURE	6123 PROPELLER FEATHERING/REVERSING	7111 COWL FLAP SYSTEM
5543 RUDDER TAB STRUCTURE	6130 PROPELLER BRAKING	7112 ENGINE AIR BAFFLE SECTION
5550 EMPENNAGE FLT. CONT. ATTACH FITTING	6140 PROPELLER INDICATING SYSTEM	7120 ENGINE MOUNT SECTION
5551 HORIZONTAL STABILIZER ATTACH FITTING	CO MAIN DOTOR	7130 ENGINE FIRESEALS
5552 ELEVATOR/TAB ATTACH FITTINGS	62 MAIN ROTOR	7160 ENGINE AIR INTAKE SYSTEM
5553 VERT. STAB. ATTACH FITTINGS	6200 MAIN ROTOR SYSTEM	7170 ENGINE DRAINS
5554 RUDDER/TAB ATTACH FITTINGS	6210 MAIN ROTOR BLADES	
	6220 MAIN ROTOR HEAD	72 TURBINE/TURBOPROP ENGINE
<u>56 WINDOWS</u>	6230 MAIN ROTOR MAST/SWASHPLATE	7200 ENGINE (TURBINE/TURBOPROP)
5600 WINDOW/WINDSHIELD SYSTEM	6240 MAIN ROTOR INDICATING SYSTEM	7210 TURBINE ENGINE REDUCTION GEAR
5610 FLIGHT COMPARTMENT WINDOWS	CO. MAIN DOTOR PRIVE	7220 TURBINE ENGINE AIR INLET SECTION
5620 PASSENGER COMPARTMENT WINDOWS	63 MAIN ROTOR DRIVE	7230 TURBINE ENGINE COMPRESSOR SECTION
5630 DOOR WINDOWS	6300 MAIN ROTOR DRIVE SYSTEM	7240 TURBINE ENGINE COMBUSTION SECTION
5640 INSPECTION WINDOWS	6310 ENGINE/TRANSMISSION COUPLING	7250 TURBINE SECTION
	6320 MAIN ROTOR GEARBOX	7260 TURBINE ENGINE ACCESSORY DRIVE
<u>57 WINGS</u>	6321 MAIN ROTOR BRAKE	7261 TURBINE ENGINE OIL SYSTEM
5700 WING STRUCTURE	6322 ROTORCRAFT COOLING FAN SYSTEM	7270 TURBINE ENGINE BYPASS SECTION
5710 WING MAIN FRAME STRUCTURE	6330 MAIN ROTOR TRANSMISSION MOUNT	
5711 WING SPAR STRUCTURE	6340 ROTOR DRIVE INDICATING SYSTEM	73 ENGINE FUEL & CONTROL
5712 WING RIB STRUCTURE	C4 TAU DOTOR	7300 ENGINE FUEL & CONTROL
5713 WING LONGERON/STRINGER	64 TAIL ROTOR	7310 ENGINE FUEL DISTRIBUTION
5714 WING CENTER BOX	6400 TAIL ROTOR SYSTEM	7311 ENGINE FUEL-OIL COOLER
5720 WING MISCELLANEOUS STRUCTURE	6410 TAIL ROTOR BLADE	7312 FUEL HEATER
5730 WING PLATES/SKINS	6420 TAIL ROTOR HEAD	7313 FUEL INJECTOR NOZZLE
5740 WING ATTACH FITTINGS	6440 TAIL ROTOR INDICATING SYSTEM	7314 ENGINE FUEL PUMP
5741 WING, FUSELAGE ATTACH FITTINGS		7320 FUEL CONTROLLING SYSTEM
5742 WING, NAC/PYLON ATTACH FITTINGS	65 TAIL ROTOR DRIVE	7321 FUEL CONTROL/ELECTRONIC
5743 WING, LANDING GEAR ATTACH FITTINGS	CEOO TAIL BOTOR DRIVE CVCTEM	7322 FUEL CONTROL/CARBURETOR
5744 CONTROL SURFACE ATTACH FITTINGS	6500 TAIL ROTOR DRIVE SYSTEM	7323 TURBINE GOVERNOR
5750 WING CONTROL SURFACE STRUCTURE	6510 TAIL ROTOR DRIVE SHAFT	7324 FUEL DIVIDER
5751 AILERON STRUCTURE	6520 TAIL ROTOR GEARBOX	7330 ENGINE FUEL INDICATING SYSTEM
5752 AILERON TAB STRUCTURE	6540 TAIL ROTOR DRIVE INDICATING SYSTEM	7331 FUEL FLOW INDICATING
5753 TE FLAP STRUCTURE		7332 FUEL PRESSURE INDICATING
5754 LEADING EDGE DEVICE STRUCTURE		7333 FUEL FLOW SENSOR
5755 SPOILER STRUCTURE		7334 FUEL PRESSURE SENSOR
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74	<u>IGNITION</u>	<u>78 E</u>	ENGINE EXHAUST	8530	RECIPROCATING ENGINE CYLINDER SECTION
7400	IGNITION SYSTEM	7800	ENGINE EXHAUST SYSTEM	8540	RECIPROCATING ENGINE REAR SECTION
7410	IGNITION POWER SUPPLY	7810	ENGINE COLLECTOR/TAILPIPE/NOZZLE	8550	RECIPROCATING ENGINE OIL SYSTEM
7411	LOW TENSION COIL	7820	ENGINE NOISE SUPPRESSOR		
7412	EXCITER	7830	THRUST REVERSER		
7413	INDUCTION VIBRATOR				
7414	MAGNETO/DISTRIBUTOR	79 I	ENGINE OIL		
7420	IGNITION HARNESS (DISTRIBUTION)	<u> </u>			
7421	SPARK PLUG/IGNITER	7900	ENGINE OIL SYSTEM (AIRFRAME)		
7430	IGNITION SWITCHING	7910	ENGINE OIL STORAGE (AIRFRAME)		
		7920	ENGINE OIL DISTRIBUTION (AIRFRAME)		
<u>75</u>	<u>AIR</u>	7921	ENGINE OIL COOLER		
7500	ENGINE BLEED AIR SYSTEM	7922	ENGINE OIL TEMP. REGULATOR		
7510	ENGINE ANTI-ICING SYSTEM	7923	OIL SHUTOFF VALVE		
7520	ENGINE COOLING SYSTEM	7930	ENGINE OIL INDICATING SYSTEM		
	COM PRESSOR BLEED CONTROL	7931	ENGINE OIL PRESSURE		
7530	COMPRESSOR BLEED CONTROL COMPRESSOR BLEED GOVERNOR	7932	ENGINE OIL QUANTITY		
7531	COMPRESSOR BLEED GOVERNOR COMPRESSOR BLEED VALVE	7933	ENGINE OIL TEMPERATURE		
7532					
7540	BLEED AIR INDICATING SYSTEM	80 9	<u>STARTING</u>		
<u>76</u>	ENGINE CONTROLS	8000	ENGINE STARTING SYSTEM		
7600	ENGINE CONTROLS	8010	ENGINE CRANKING		
7600	ENGINE CONTROLS ENGINE SYNCHRONIZING	8011	ENGINE STARTER		
7601		8012	ENGINE START VALVES/CONTROLS		
7602	MIXTURE CONTROL	0012	ENGINE OTAKT VALVEO/OONTROLO		
7603	POWER LEVER	81	TURBOCHARGING		
7620	ENGINE EMERGENCY SHUTDOWN SYSTEM		<u> </u>		
77	ENGINE INDICATING	8100	EXHAUST TURBINE SYSTEM (RECIP)		
		8110	POWER RECOVERY TURBINE (RECIP)		
7700	ENGINE INDICATING SYSTEM	8120	EXHAUST TURBOCHARGER		
7710	POWER INDICATING SYSTEM				
7711	ENGINE PRESSURE RATIO (EPR)	<u>82</u>	WATER INJECTION		
7712	ENGINE BM EP/TORQUE INDICATING	8200	WATER INJECTION SYSTEM		
7713	MANIFOLD PRESSURE (MP) INDICATING				
7714	ENGINE RPM INDICATING SYSTEM	83	ACCESSORY GEARBOXES		
7720	ENGINE TEMP. INDICATING SYSTEM	8300	ACCESSORY GEARBOXES		
7721	CYLINDER HEAD TEMP (CHT) INDICATING	0000	NOOLOGOKT GEMIDONEG		
7722	ENG. EGT/TIT INDICATING SYSTEM	8.5	RECIPROCATING ENGINE		
7730	ENGINE IGNITION ANALYZER SYSTEM				
7731	ENGINE IGNITION ANALYZER	8500	ENGINE (RECIPROCATING)		
7732	ENGINE VIBRATION ANALYZER	8510	RECIPROCATING ENGINE FRONT SECTIO		
7740	ENGINE INTEGRATED INSTRUMENT SYSTEM	8520	RECIPROCATING ENGINE POWER SECTION	N	

MECHANICS CREED

UPON MY HONOR I swear that I shall hold in sacred trust the rights and privileges conferred upon me as a certified mechanic. Knowing full well that the safety and lives of others are dependent upon my skill and judgment, I shall never knowingly subject others to risks which I would not be willing to assume for myself, or for those dear to me.

IN DISCHARGING this trust, I pledge myself never to undertake work or approve work which I feel to be beyond the limits of my knowledge; nor shall I allow any non-certificated superior to persuade me to approve aircraft or equipment as airworthy against my better judgment; nor shall I permit my judgment to be influenced by money or other personal gain; nor shall I pass as airworthy aircraft or equipment about which I am in doubt, either as a result of direct inspection or uncertainty regarding the ability of others who have worked on it to accomplish their work satisfactorily.

I REALIZE the grave responsibility which is mine as a certified airman, to exercise my judgment on the airworthiness of aircraft and equipment. I, therefore, pledge unyielding adherence to these precepts for the advancement of aviation and for the dignity of my vocation.